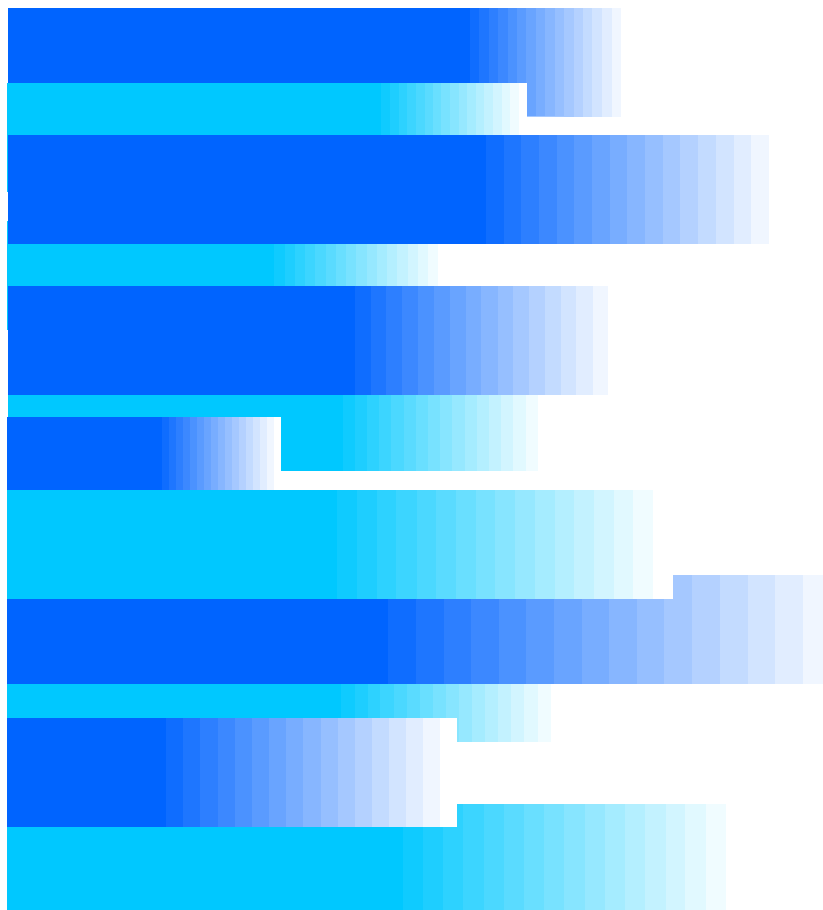


Operating Instructions

Back-End Administrator (Back-End Application)

Model No. **AG-JJLBE20P**



Streaming, Convert Copy and Exporting from the Front-End Application are not available at present. Upgrading is scheduled for the future.

In this manual, each explanation for streaming from the Back-End Application and convert copy and exporting from the Front-End Application is enclosed in a colored frame, like .

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Streaming is not available at present. Upgrading is scheduled for the future.

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For obtaining the software, contact your supplier.

■ **Display in this manual**
Display on the screen may differ from the actual product.

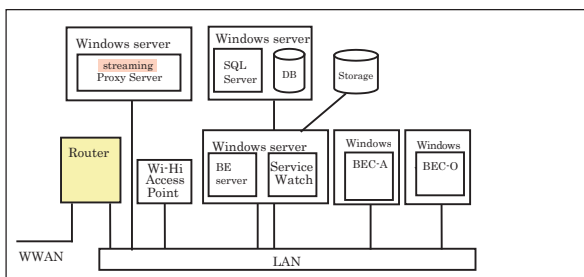
Overview

An AG-JJLBE20P Back-End Administrator application is a Windows application to operate videos registered in the Back-End Server.

Back-End System Construction

The Back-End System is composed of the Back-End Server, database server, and Back-End Administrator and Back-End Client applications. The Back-End Server receives videos and meta-information from the Front-End application or the Memory Card Video Recorder and stores them in its storage area. The meta-information is registered in the database server. The Back-End application is composed of two parts, one for an administrator (Back-End Administrator) and another for an officer (Back-End Client). The Back-End Administrator application enables updating of software, user management, system setting, etc. The Back-End Client application enables searching for videos stored in the Back-End Server, playing videos found, **streaming** videos, exporting data, etc.

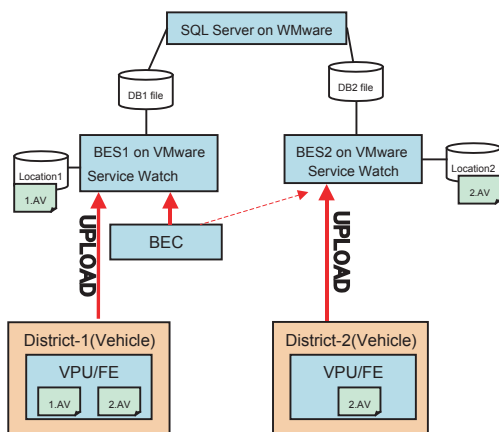
The Back-End System also includes the Service Watch application, which monitors operation logs of the Back-End system in real time.



Streaming is not available at present. Upgrading is scheduled for the future.

Multi-Server System

The Back-End system has multiple servers that are independent of one another, and one Back-End Server has its own database. The Front-End application can upload videos to any Back-End Server. When the Back-End Client user is logged in, the user selects one of multiple servers, and a search operation is enabled on the selected Back-End Server only.



Functions

The Back-End Administrator application allows an administrator to make settings for operating the Memory Card Video Recorder, Front-End applications, Back-End Administrator application and Back-End Client application.

Updating software

Firmware of the Memory Card Video Recorder, Front-End application, Back-End Administrator application, and Back-End Client application can be remotely updated to the latest version.

User registration

Administrators and officers who use the Front-End application, Back-End Administrator application, and Back-End Client application are registered as users.

Grouping users

Registered users can be grouped. Once they are grouped, information for multiple users can be updated easily.

Defining rules

Rules for registering videos to the database can be defined.

Defining classify tag

Classify tags used for searching for can be defined.

System setup

Setting for the Back-End Server can be made.

Operating Environment

A PC that meets the following operating environment is required for use of this application:

CPU: Intel Core Duo 1.66 GHz or more
(recommended)

RAM: 512 MB or more (for Windows Vista
Business, 1GB or more) (recommended)

Display: 1024 x 768 dot or more

LAN: 1000BASE-T/100BASE-TX

OS: Windows XP Professional Service Pack 3 or
later, Windows Vista Business Service pack 2 or
later

Add on: .Net Framework 3.5 Service Pack 1

Windows Installer3.1

Adobe Reader 8 or 9

Installing/Uninstalling

Installing

Installing the Back-End Administrator application

To install the Back-End Administrator application, the Back-End Server application must be installed. For installation of the Back-End Server, refer to the Operating Instructions for the Service Watch.

1. **Start the Internet Explorer.**
2. **Access to `http:// (IP address of the Back-End Server):12430/Admin.exe`.**
The Update module is downloaded, and executed.
3. **Enter the IP address of the Back-End Server, and click on [Update].**
The License Agreement screen appears.
4. **Select “I Agree”.**
The Installation Complete screen appears.
5. **Click on [Close].**
The login dialog box appears.
6. **Enter the Server IP address, User, Password, and click on [Login].**
A shortcut icon is placed on the desktop.

Remote updating

The Back-End Administrator application can be remotely updated when the latest version of the Back-End Administrator application is registered in the Back-End Server.

When the Back-End Administrator application receives the update module from the Back-End Server, it is automatically updated upon being restarted.

Notes

- If the Interactive services dialog detection dialog box is displayed, select “Show me the message.”
- If a dialog box prompting you to select Try Again, Continue, or Exit Installation is displayed, select Continue.

Uninstalling

Uninstall the Back-End Administrator application following the procedures below.

Procedures for Windows XP

- 1. Click on the [Start] button.**
- 2. Select Control Panel.**
- 3. Double-click on Add or Remove Programs.**
The Currently installed programs window opens.
- 4. Select the program to be uninstalled.**
- 5. Click on the [Remove] button.**
A confirmation message appears.
- 6. Click on the [Yes] button.**
Uninstalling of the selected program starts.

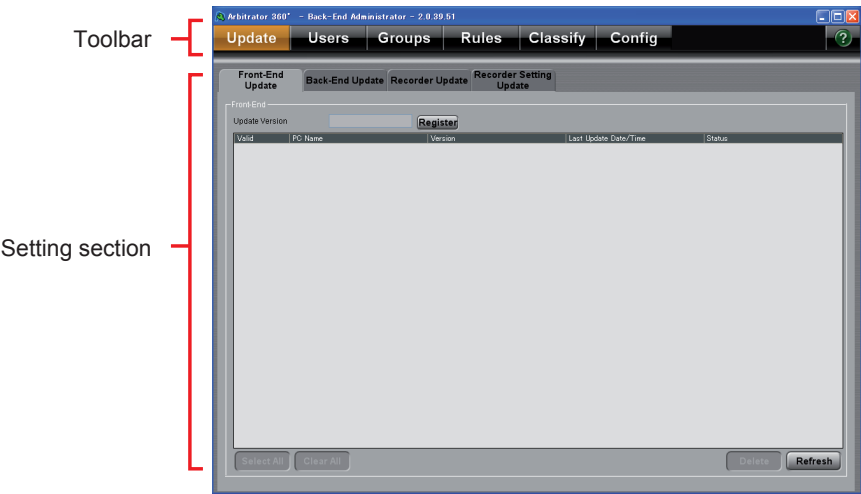
Procedures for Windows Vista

- 1. Click on the [Start] button.**
- 2. Select Control Panel.**
- 3. Double-click on Programs and Features.**
The Uninstall or change a program window opens.
- 4. Select the program to be uninstalled.**
- 5. Click on Uninstall.**
The User Account Control window opens.
- 6. Click on the [Continue] button.**
The Uninstall window opens.
- 7. Click on the [Uninstall] button.**
Uninstalling of the selected program starts.

Description of the Screen Displays

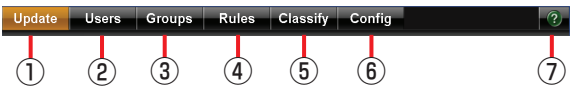
Main Screen

When the login succeeds, the main screen appears.
The main screen contains a toolbar and setting section.



Toolbar

When one of the buttons is clicked on, the screen for the corresponding function will open.



- ① **Update button**
For displaying the remote update screen for updating software and the settings of the Memory Card Video Recorder.
(See "Update Screen," page 10.)
- ② **Users button**
For displaying the user registration screen for registering users who are enabled to use the Back-End Administrator application, Back-End Client application and Front-End application.
(See "Users Screen," page 15.)
- ③ **Groups button**
For displaying the group registration screen for grouping users.
(See "Groups Screen," page 16.)
- ④ **Rules button**
For displaying the evidence rules setting screen for defining evidence rules applied to the video files registered in the database.
(See "Rules Screen," page 17.)

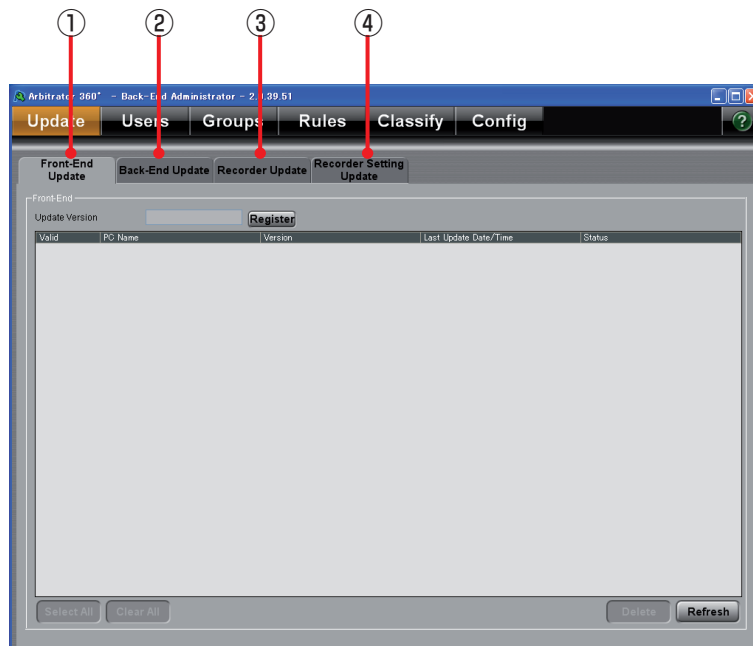
- ⑤ **Classify button**
For displaying the classify setting screen for defining a classify tag.
(See "Classify Screen," page 18.)
- ⑥ **Config button**
For displaying the configuration screen for setting the Back-End Server.
(See "Configuration Screen," page 19.)
- ⑦ **Help button**
When this button is clicked, the mouse pointer will be turned to "→+?". Clicking on a button or input field with this pointer will display the description of the clicked button/input field.

Note

If you use Adobe Reader 8 or 9, the description may not be displayed correctly when you click on a button or input field.

Update Screen

When the Update button on the main screen is clicked on, the remote update screen for updating the Front-End application, Back-End application, firmware of the Memory Card Video Recorder, and recorder settings is displayed.



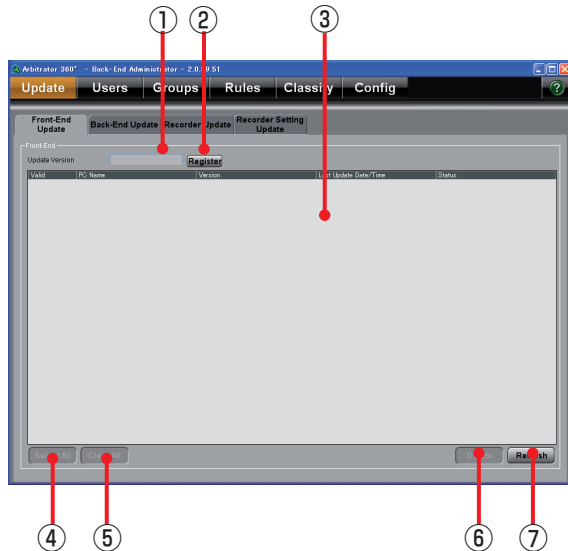
- ① **Front-End Update tab**
For displaying the screen for updating the Front-End application.
(See "Front-End Update screen," page 11 and "Updating the Front-End application," page 28.)
- ② **Back-End Update tab**
For displaying the screen for updating the Back-End Administrator application, Back-End Client application.
(See "Back-End Update screen," page 12 and "Updating the Back-End Administrator and Back-End Client applications," page 29.)
- ③ **Recorder Update tab**
For displaying the Remote Update screen for updating firmware of the Memory Card Video Recorder.
(See "Recorder Update screen," page 13 and "Updating the firmware of the Memory Card Video Recorder," page 31.)
- ④ **Recorder Setting Update tab**
For displaying the Remote Update screen for updating the configuration settings for the Memory Card Video Recorder.
(See "Recorder Setting Update screen," page 14 and "Updating the recorder settings," page 33.)

Description of the Screen Displays (continued)

Front-End Update screen

When the Front-End Update tab on the Update screen is clicked on, the Front-End Update screen appears. The Front-End application will be updated by transferring the latest version from the Back-End Server to the Front-End application via LAN or WLAN.

(See "Updating the Front-End application," page 28.)



- ① **Update Version display**
For displaying the software version for updating.
- ② **Register button**
For registering the Front-End application in the Back-End Server.
- ③ **Front-End list**
For displaying the list of the Front-End application detected by the Back-End Server. Right-clicking enables deleting the Front-End application and refreshing the screen.

Valid: Check the check box, and the corresponding Front-End application will be updated.

PC Name: Name of the PC with the Front-End application installed.

Version: The current version of the Front-End application installed.

Last Update Date/Time: The last applying date and time of the Front-End applications.

Status: The update status of the Front-End applications.

- Wait for Update
- Updating
- Updated
- Disconnected

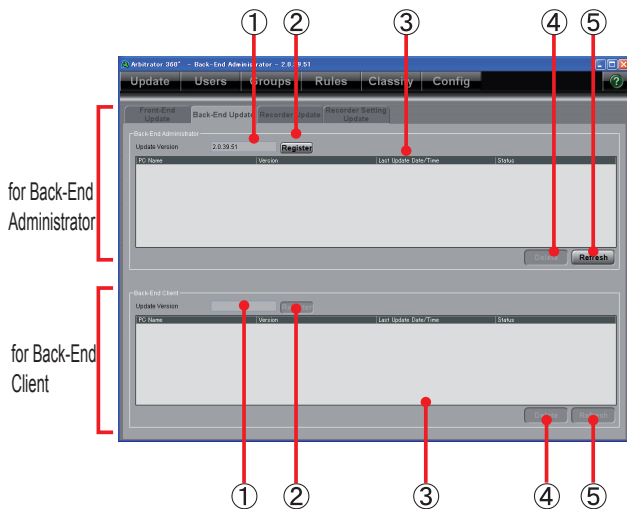
- ④ **Select All button**
All Valid check boxes for the Front-End application shown on the Front-End list are checked.
- ⑤ **Clear All button**
All Valid check boxes for the Front-End application shown on the Front-End list are unchecked.
- ⑥ **Delete button**
For deleting the Front-End application selected on the Front-End list from the database.
- ⑦ **Refresh button**
For refreshing the Front-End list.

Description of the Screen Displays (continued)

Back-End Update screen

When the Back-End Update tab on the Update screen is clicked on, the Back-End Update screen appears. The Back-End Administrator application and/or the Back-End Client application will be updated by transferring the latest version from the Back-End Server to the Back-End Administrator and Back-End Client applications.

(See "Updating the Back-End Administrator and Back-End Client applications," page 29.)



④ **Delete button**

For deleting the Back-End application selected on the Back-End list from the database.

⑤ **Refresh button**

For refreshing the Back-End list.

① **Update Version display**

For displaying the software version for updating.

② **Register button**

For registering the Back-End Administrator or Back-End Client application to the Back-End Server.

③ **Back-End list**

For displaying the list of the Back-End Administrator or Back-End Client application detected by the Back-End Server. Right-clicking enables deleting the Back-End Administrator or Back-End Client application and refreshing the screen.

PC Name: Name of the PC with the Back-End Administrator or Back-End Client application installed.

Version: The current version of the Back-End Administrator or Back-End Client application installed.

Last Update Date/Time: The last applying date and time of the Back-End Administrator or Back-End Client application.

Status: The update status of the Back-End Administrator or Back-End Client application.

- Wait for Update
- Updating
- Updated
- Disconnected

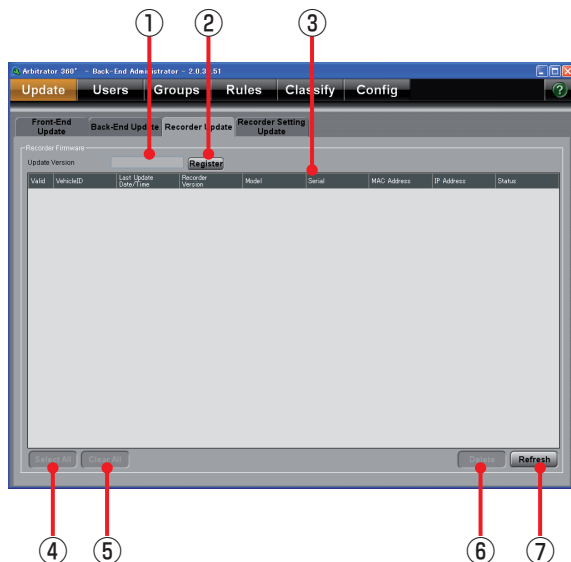
Description of the Screen Displays (continued)

Recorder Update screen

When the Recorder Update tab on the Update screen is clicked on, the Recorder Update screen appears.

The firmware of the Memory Card Video Recorder is updated by transferring the latest version from the Back-End Server directly or via the Front-End application to the recorder, using LAN or WLAN.

(See "Updating the firmware of the Memory Card Video Recorder," page 31.)



① **Update Version display**

For displaying the software version for updating.

② **Register button**

For registering the firmware for the Memory Card Video Recorder in the Back-End Server.

③ **Recorder list**

For displaying the list of the Memory Card Video Recorders detected by the Back-End Server. Right-clicking enables deleting the firmware or refreshing the screen.

Valid: Check the check box, and the corresponding firmware will be updated.

VehicleID: The Vehicle ID. (If the Valid check box is unchecked, single-clicking enables editing.)

Last Update Date/Time: The last applying date and time of the firmware of the Memory Card Video Recorder.

Recorder Version: The current version of the firmware of the Memory Card Video Recorder.

Model: The model name of the Memory Card Video Recorder (available on the AG-CPD20P only).

Serial: The serial number of the Memory Card Video Recorder (available on the AG-CPD20P only).

MAC Address: The MAC address of the Memory Card Video Recorder's network interface for

connecting with the Front-End application.

IP Address: The IP address of the Memory Card Video Recorder.

Status: The update status of the Memory Card Video Recorder.

- Wait for Update
- Updating
- Updated
- Disconnected

④ **Select All button**

All Valid check boxes for the Memory Card Video Recorders shown on the Recorder list are checked.

⑤ **Clear All button**

All Valid check boxes for the Memory Card Video Recorders shown on the Recorder list are unchecked.

⑥ **Delete button**

For deleting the Memory Card Video Recorder selected on the Recorder list.

⑦ **Refresh button**

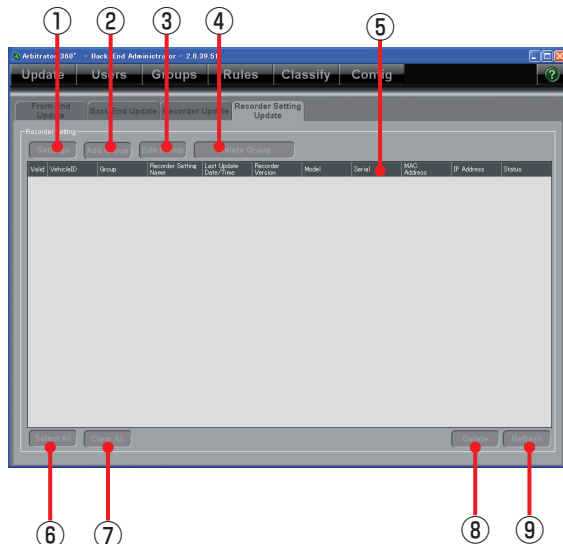
For updating the Recorder list.

Description of the Screen Displays (continued)

Recorder Setting Update screen

When the Recorder Setting Update tab on the Update screen is clicked on, the Recorder Setting Update screen appears. The configuration settings of the Memory Card Video Recorder will be updated via LAN or WLAN.

(See "Updating the recorder settings," page 33.)



① **Settings button**

Click to display the Recorder Setting screen. Adding, editing or deleting settings for the Memory Card Video Recorder is enabled.

② **Add Group button**

A new Memory Card Video Recorder group is created.

③ **Edit Group button**

For editing the list of the Memory Card Video Recorders belonging to the group.

④ **Delete Group button**

For deleting a Memory Card Video Recorder group.

⑤ **Recorder list**

For displaying the list of the Memory Card Video Recorders detected by the Back-End Server. Right-clicking enables deleting the firmware or refreshing the screen.

Valid: Check the check box, and the corresponding recorder setting will be updated.

VehicleID: The Vehicle ID. (If the Valid check box is unchecked, single-clicking enables editing.)

Group: For displaying the group to which a Memory Card Video Recorder belongs.

Recorder Setting Name: For selecting the setting applied to the Memory Card Video Recorder from among predefined settings or None setting. If the Memory Card Video Recorder belongs to a group, the selected setting is applied to all recorders in the group.

Last Update Date/Time: Displays the last applying date and time of the setting of the Memory Card Video Recorder.

Recorder Version: The current version of the firmware of the Memory Card Video Recorder.

Model: The model name of the Memory Card Video Recorder (available on the AG-CPD20P only).

Serial: The serial number of the Memory Card Video Recorder (available on the AG-CPD20P only).

MAC Address: The MAC address of the Memory Card Video Recorder's network interface for connecting with the Front-End application.

IP Address: The IP address of the Memory Card Video Recorder.

Status: The update status of the Memory Card Video Recorder.

- Wait for Update
- Updating
- Updated
- Disconnected

⑥ **Select All button**

All Valid check boxes for the Memory Card Video Recorders shown on the Recorder list are checked.

⑦ **Clear All button**

All Valid check boxes for the Memory Card Video Recorders shown on the Recorder list are unchecked.

⑧ **Delete button**

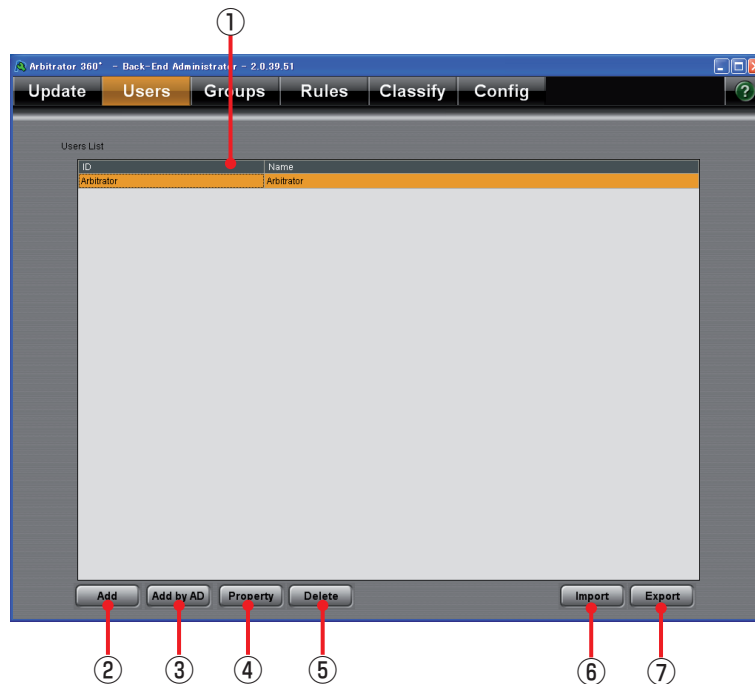
For deleting the Memory Card Video Recorder selected on the Recorder list.

⑨ **Refresh button**

For updating the Recorder list.

Users Screen

When the Users button on the main screen is clicked on, the user registration screen is displayed. On this screen, registered users are listed. Adding and deleting users and changing user information are enabled. (See "Registering Users," page 55.)

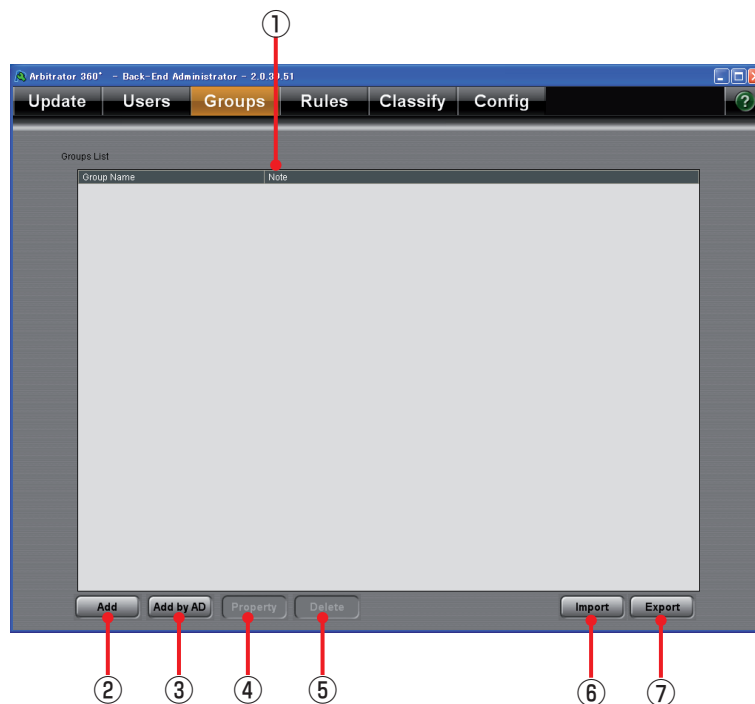


- ① **Users List**
For displaying the User ID and name registered to the Back-End Server. Right-clicking enables displaying the property and adding and deleting data.
- ② **Add button**
For adding users.
- ③ **Add by AD button**
For adding users using the Active Directory data.
- ④ **Property button**
For displaying the property screen for showing and editing the user data.
- ⑤ **Delete button**
For deleting the users selected on the User list.
- ⑥ **Import button**
For registering the user and group information stored on external media to the database.
- ⑦ **Export button**
For exporting the user and group information registered in the Back-End Server to external media.

Groups Screen

When the Groups button on the main screen is clicked on, the group setting screen is displayed. On this screen, registered groups are listed. Adding and deleting groups and changing group information are enabled.

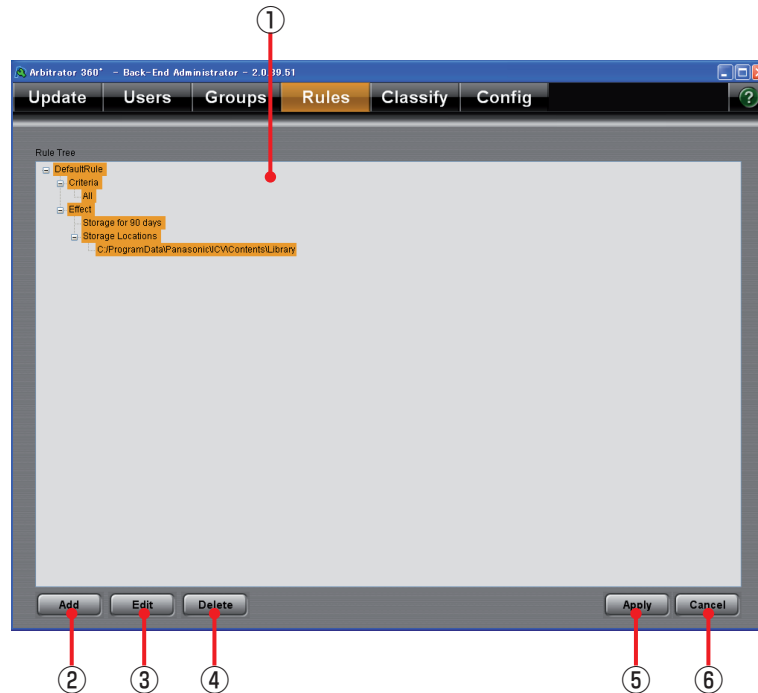
(See "Registering Groups," page 62.)



- ① **Groups List**
For displaying the list of group name and group note registered in the Back-End Server. Right-clicking enables displaying the property, and adding and deleting groups.
- ② **Add button**
For adding groups.
- ③ **Add by AD button**
For adding groups using the Active Directory data.
- ④ **Property button**
For displaying the property screen for showing and editing the group data.
- ⑤ **Delete button**
For deleting the groups selected on the Groups list.
- ⑥ **Import button**
For registering the user and group information stored on external media to the database.
- ⑦ **Export button**
For exporting the user and group information registered in the Back-End Server to external media.

Rules Screen

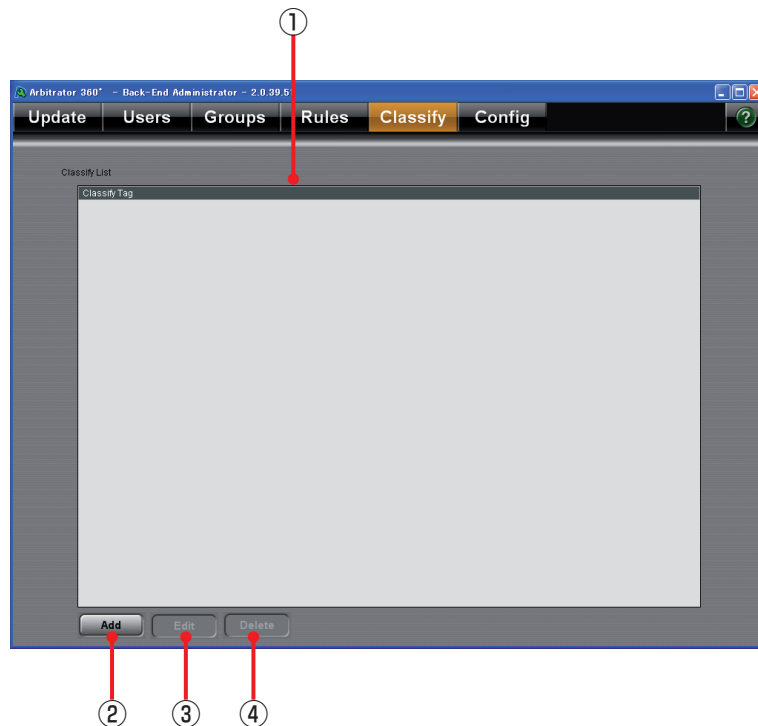
When the Rules button on the main screen is clicked on, the evidence rule setting screen is displayed. On this screen, rules are listed. Adding and deleting rules and changing rules information are enabled.
(See "Setting Evidence Rules," page 64.)



- ① **Rule Tree**
For displaying the rules registered in the Back-End Server in tree format. Right-clicking enables adding, editing, or deleting the rules or opening or closing all rules.
- ② **Add button**
When this button is clicked on, the Rule screen appears, on which rules can be added.
- ③ **Edit button**
When this button is clicked on, the Rule screen appears, on which rules can be edited.
- ④ **Delete button**
For deleting rules.
- ⑤ **Apply button**
For registering the edited rules in the database.
- ⑥ **Cancel button**
For canceling editing of the rules.

Classify Screen

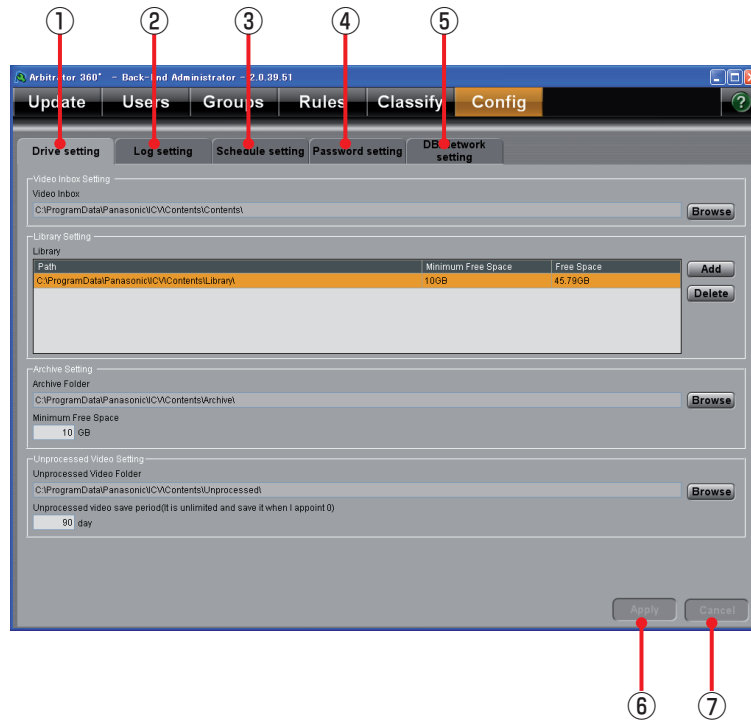
When the Classify button on the main screen is clicked on, the classify setting screen is displayed. On this screen, classify tags are listed. Creating, deleting, and changing classify tags are enabled.
(See "Setting Classify Information," page 69.)



- ① **Classify List**
For displaying the list of the Classify tag registered in the database. Right-clicking enables adding, editing, and deleting Classify tag. Double-clicking enables editing the Classify tag.
- ② **Add button**
For displaying the Input Classify Tag screen for adding a classify tag.
- ③ **Edit button**
For displaying the Input Classify Tag screen for editing a classify tag.
- ④ **Delete button**
For deleting the Classify Tags.

Configuration Screen

When the Config button on the main screen is clicked on, the system configuration screen is displayed.
(See "System Setup," page 70.)



① **Drive setting tab**

For displaying the drive setting screen for setting the destination to register video files.
(See "Drive setting screen," page 20, and "Drive Setting," page 71.)

② **Log setting tab**

For displaying the log setting screen for setting log output.
(See "Log setting screen," page 21, and "Log Setting," page 74.)

③ **Schedule setting tab**

For displaying the schedule setting screen.
(See "Schedule setting screen," page 22, and "Schedule Setting," page 76.)

④ **Password setting tab**

For displaying the password setting screen for setting the password policy.
(See "Password setting screen," page 23, and "Setting the Password," page 78.)

⑤ **DB/Network setting tab**

For displaying the database/network setting screen.
(See "DB/Network setting screen," page 24, and "Setting the Database and Network," page 80.)

⑥ **Apply button**

All settings and changes made on each setting screen will be registered to the database.

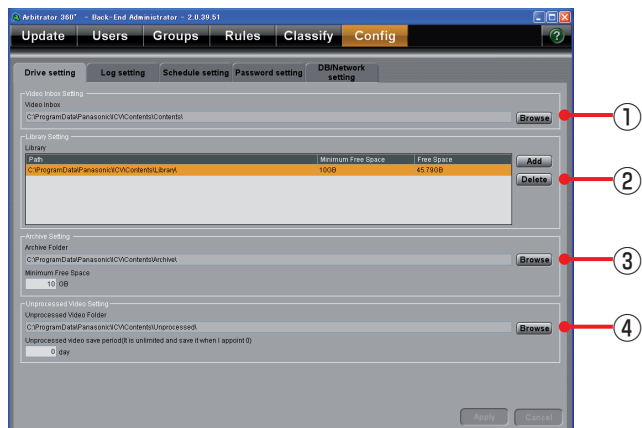
⑦ **Cancel button**

For canceling all settings and changes made on each setting screen.

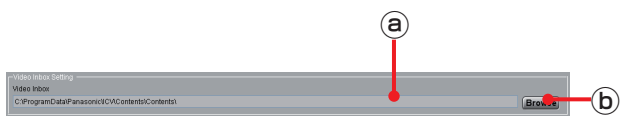
Description of the Screen Displays (continued)

Drive setting screen

When the Drive setting tab on the Config screen is clicked on, the drive setting screen is displayed.
(See "Drive Setting," page 71.)



① Video Inbox Setting



For specifying the folder path for the Video Inbox where temporarily stores the video files uploaded from the Front-End application, Memory Card Video Recorder, or Back-End Client application.

a Video Inbox

For displaying the folder path for the Video Inbox.

b Browse button

The Server Folder Setting dialog box opens to select the Video Inbox.

② Library Setting



For specifying a folder in which videos are to be stored.

a Library

For displaying the list of the folder path of folders where video files are to be moved from the Video Inbox. Right-clicking enables adding or deleting the folder path.

Path: The full path for the folders which store the video files.

Minimum Free Space: The minimum disk space. When free space is less than this size, e-mail is automatically sent to the users who belong to the group specified in "Alert Setting." (See "Schedule setting screen," page 22.)

Free Space: The current disk space.

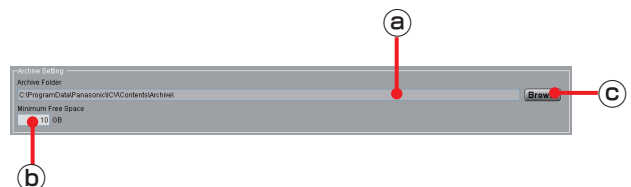
b Add button

For adding a new folder in which videos are to be stored.

c Delete button

For deleting a folder selected on the Library.

③ Archive Setting



For setting the Archive folder.

a Archive Folder

For displaying the full folder path for the Archive folder.

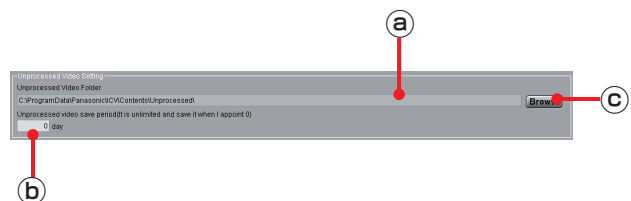
b Minimum Free Space

Enter the minimum free space. When the free space is less than this size, the e-mail is automatically sent to the users who belong to the group specified in "Alert Setting". (See "Schedule setting screen," page 22.)

c Browse button

For opening the Server Folder Setting dialog box for selecting the Archive Folder.

④ Unprocessed video setting



Settings for the Unprocessed Video Folder will be made.

When the video is verified and unprocessed, e-mail is automatically sent to the users who belong to the group specified in "Alert Setting." (See "Schedule setting screen," page 22.) Consult your supplier.

a Unprocessed Video Folder

For displaying the full folder path for the Unprocessed Video Folder.

b Unprocessed video save period

The retention period of the unprocessed video file is fixed to unlimited.

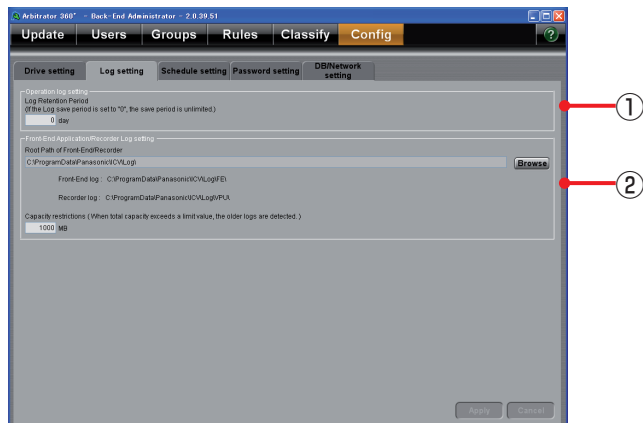
c Browse button

For opening the Server Folder Setting dialog box for selecting the Unprocessed Video Folder.

Description of the Screen Displays (continued)

Log setting screen

When the Log setting tab on the Config screen is clicked on, the log setting screen is displayed.
(See "Log Setting," page 74.)



① Operation log setting

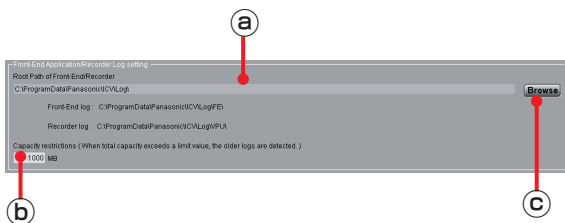


Settings for the user operation log will be made.

① **a Log Retention Period**

For specifying the retention period of the user operation log. If the Log Retention Period is set to "0", the retention period will be unlimited.

② Front-End Application/Recorder Log setting



Settings for the log of the Front-End application and Memory Card Video Recorder will be made.

② **a Root Path of Front-End/Recorder**

For displaying the full path of the Front-End and Memory Card Video Recorder log files.

② **b Capacity restrictions**

For setting the capacity of the Front-End application and Memory Card Video Recorder log files. The log is deleted from the oldest one when the capacity exceeds this value.

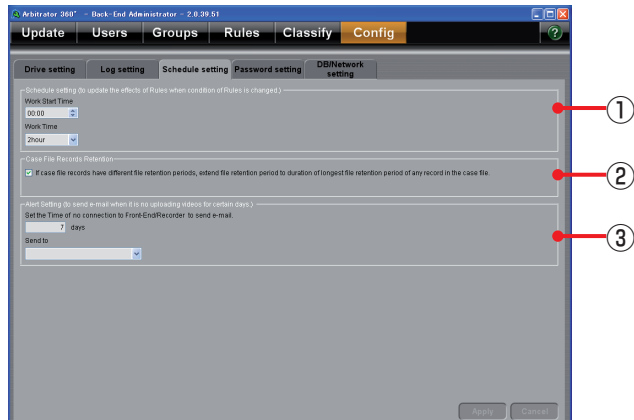
② **c Browse button**

For opening the Server Folder Setting dialog box for selecting the Root Path of the Front-End application and Recorder.

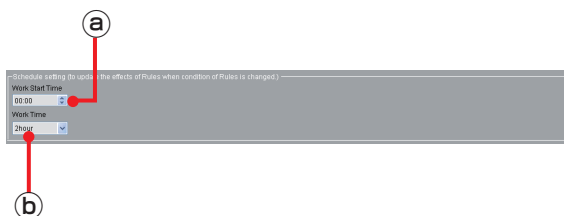
Description of the Screen Displays (continued)

Schedule setting screen

When the Schedule setting tab on the Config screen is clicked on, the schedule setting screen is displayed.
(See "Schedule Setting," page 76.)



① Schedule setting



For setting the schedule.

① **Work Start Time**

For entering the start time of the batch processing.
Default setting is 00:00.

② **Work Time**

For entering the time of the batch processing.
Setting values: 1 hour, 2 hour, 3 hour, 5 hour, Until End.
Default setting: 2 hour

② Case File Records Retention



When checked, the longest retention period from among all files associated to the case file will be applied.

③ Alert Setting



Alert settings will be made.

① **Set the Time of no connection to Front-EndRecorder to send e-mail.**

If a certain recorder has not uploaded video files exceeding the specified days, the warning e-mail is sent to the specified group.

Default setting: 7 days

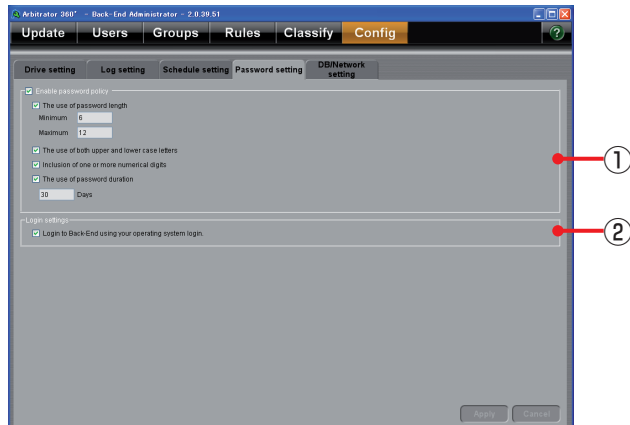
② **Send to**

The destination of e-mail is specified.
Default setting: Empty

Description of the Screen Displays (continued)

Password setting screen

When the Password setting tab on the Config screen is clicked on, the password setting screen is displayed.
(See "Setting the Password," page 78.)



① Login to Back-End using your operating system login.

When checked, the login screen appears with the user name and password set as default if the user name being logged in Windows is registered in the Back-End application.

① Enable password policy



For setting if password policy is used or not.

① The use of password length

For setting if restriction of character length for a password is used or not. If checked, the restriction shown below will be valid.

Minimum: Minimum length.

Maximum: Maximum length.

② The use of both upper and lower case letters

For setting the case sensitivity for a password.
When checked, it is enabled.

③ Inclusion of one or more numerical digits

For setting if the password should include numerical digits or not. When checked, a password should include numerical digits.

④ The use of password duration

For setting the effective period of a password. The password is requested to be changed at the end of the period set here. When checked, the password time-limit is specified. Empty or "0" means unlimited. Enter the period in the box below.
When unchecked, this restriction will not be applied.

② Login settings



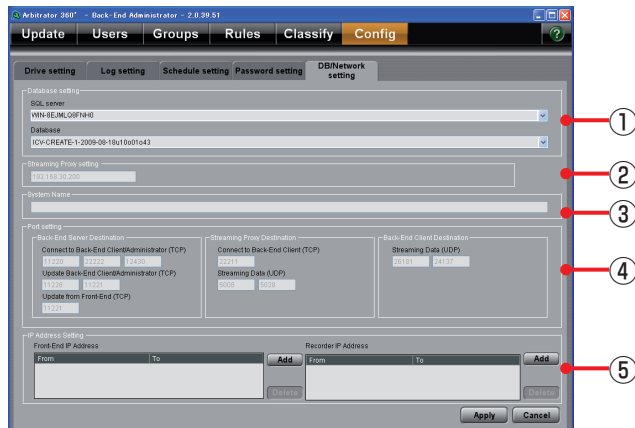
For setting the login

Description of the Screen Displays (continued)

DB/Network setting screen

When the DB/Network setting tab on the Config screen is clicked on, the database and network setting screen is displayed.

(See "Setting the Database and Network," page 80.)



① Database setting



Setting for the database will be made.

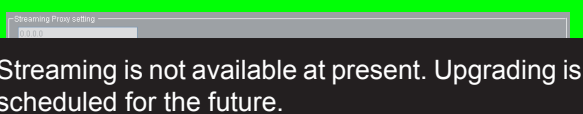
① SQL server

For setting the database server to be connected. The database servers detected automatically will be displayed on the dropdown list.

② Database

For setting the database. Database managed by the specified database server is displayed. Select the database from the dropdown list.

② Streaming Proxy setting

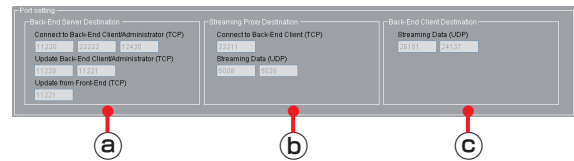


③ System Name



For communicating the Back-End Server with the Memory Card Video Recorder directly. The communication is enabled only with the recorder having the system name set here.

④ Port setting



For setting the port

① Back-End Server Destination Connect to Back-End Client/Administrator

(TCP): For confirming the port number for communicating the Back-End Administrator or Back-End Client application and Back-End Server to process the request such as Login, Video search, etc.

Update Back-End Client/Administrator (TCP): For confirming the port number to update the Back-End Administrator or Back-End Client module from the Back-End Server.

Update from Front-End (TCP): For confirming the port number to update the module for an administrator from the Back-End Server.

② Streaming Proxy Destination

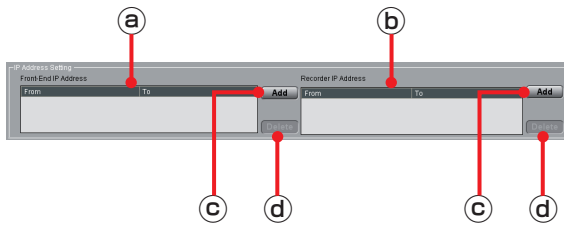
Connect to Back-End Client (TCP): For confirming the port number of the streaming proxy server to stream videos on the Back-End Client application.

Streaming Data (UDP): For confirming the port number of the streaming proxy server to transfer videos from the Front-End application or the Memory Card Video Recorder.

③ Back-End Client Destination

Streaming is not available at present. Upgrading is scheduled for the future.

⑤ IP Address Setting



For setting the IP address.

① **Front-End IP Address**

For displaying the IP address for communicating with the Memory Card Video Recorder via the Front-End application.

② **Recorder IP Address**

For displaying the IP address of the Memory Card Video Recorder for communicating with the Memory Card Video Recorder.

③ **Add button**

When this button is clicked on, the IP Address Setting dialog box appears. IP addresses can be added.

④ **Delete button**

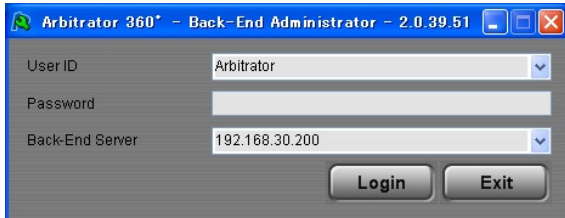
For deleting the IP address selected on the IP address list.

Startup and Termination

Starting up

1. Turn on the PC.
2. Double-click on the **Back-End Administrator icon on the desktop.**

The Login screen is displayed.



3. Enter the IP address or Host name of the **Back-End Server in the Back-End Server field.**

If you have logged in before, you can select it from the dropdown list.

4. Enter the **User ID.**

If you have logged in before, you can select the User ID from the dropdown list.

5. Enter the **password.**

6. Click on **[Login].**

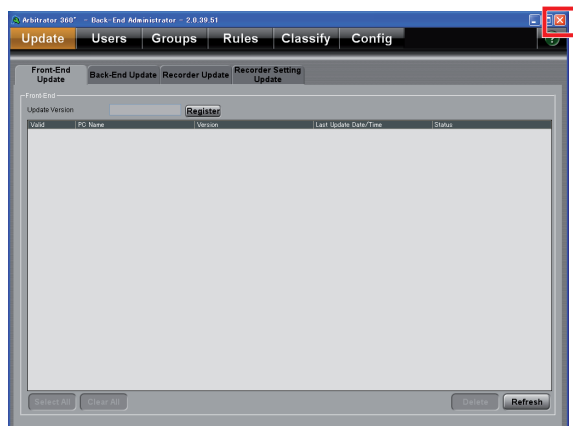
The Main screen is displayed.

Canceling login

Click on **[Exit]**.

Terminating

Click on the close button at the upper right on the Main screen. The application is terminated, and the screen is closed.



Note

While updating, the error message appears, and the application cannot be terminated.

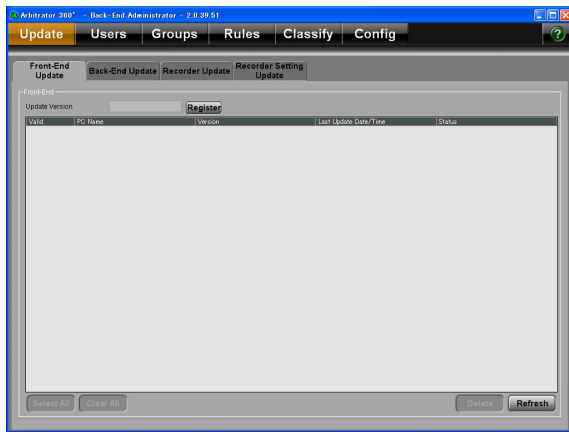
Operations

Updating

The Back-End Administrator application can remotely update the Front-End application and Memory Card Video Recorder, as well as the Back-End system itself.

Updating the Front-End application

The latest version of the Front-End application is sent to the PC with the Front-End application installed via wired or wireless LAN for updating the application. Click on the Front-End Update tab. The Front-End Update screen appears. On this screen, confirmation of the update status of the Front-End application and registration of the Front-End application to the Back-End Server are enabled.



Confirming the update status of the Front-End applications

On the Front-End Update screen, a list of PCs on which Front-End application is running detected by the Back-End Server is displayed. On the list, the version and date and time of last update of each Front-End application are displayed.

In the Update Version field, the latest version appears.

Updating the Front-End application

If the Valid check box is checked, the Back-End Server detects the checked PC and updates it automatically. The version of the updating software is displayed in the Update Version field.

Note that without registering the Front-End application, the Valid check box cannot be checked, and [Select All] and [Clear All] are not active.

Selecting all Front-End applications

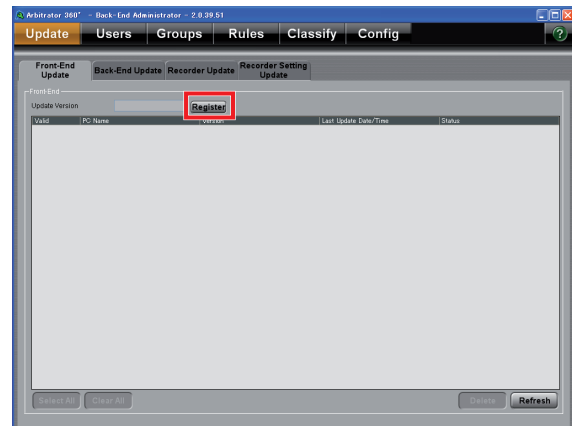
Click on [Select All]. All Valid check boxes will be checked.

Clearing selection of all Front-End applications

Click on [Clear All]. All Valid check boxes will be unchecked.

Registering the Front-End application

Only one version of the Front-End application can be registered in the Back-End Server. When a new version is registered, the old one will be deleted.



1. Click on [Register].

The file selection dialog box appears.

2. Select the update module for the Front-End application.

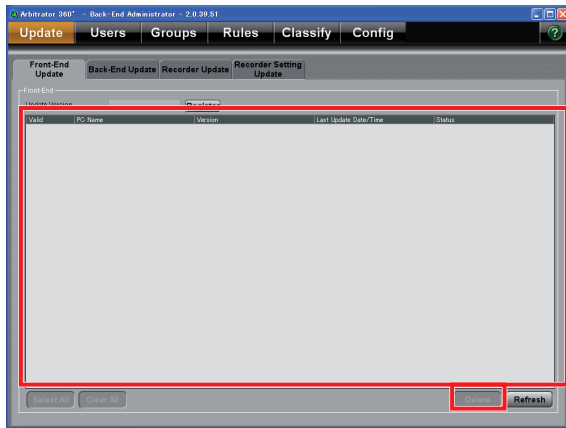
3. Click on [Open].

The update module is checked if it is correct. The application is registered if the module is correct. If it is not correct, an error message appears.

Updating the Front-End Update screen

Click on [Refresh]. The screen will be updated.

Deleting PC on which Front-End application is running



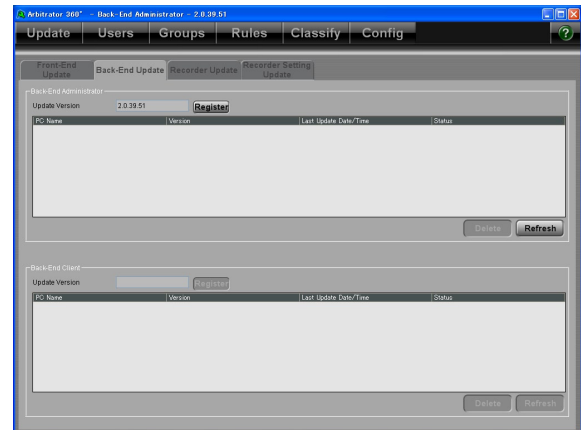
1. Select PCs to be deleted on the Front-End Application list.
2. Click on [Delete].
A confirmation dialog box is displayed.
3. Click on [Yes].
The selected PCs will be deleted from the list.

Cancel deleting

Click on [No] in the confirmation dialog box.

Updating the Back-End Administrator and Back-End Client applications

On the Back-End Update screen, updating of the Back-End Administrator application and Back-End Client application is enabled. Upper half of the screen is for a Back-End Administrator application, and the lower half is for a Back-End Client application. Click on the Back-End Update tab. The Back-End Update screen appears.



Confirming the update status of the Back-End Administrator and Back-End Client applications

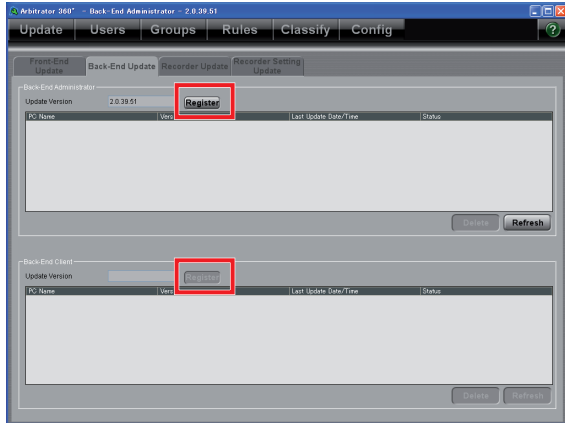
On the Back-End Update screen, a list of PCs on which Back-End Administrator or Back-End Client application is running, registered in the Back-End Server is displayed. On the list, the version and date and time of last update of each Back-End Administrator and Back-End Client application are displayed. In the Update Version field, the latest version appears.

Updating the Back-End Administrator or Back-End Client applications

Upon the start-up of the Back-End Administrator or Back-End Client application, the version of the application registered in the Back-End Server is checked. If the latest version is detected, the Back-End Administrator or Back-End Client application is automatically updated. The version of the updating software is displayed in the Update Version field.

Registering the Back-End Administrator or Back-End Client application

Only one version of the Back-End Administrator and Back-End Client applications can be registered in the Back-End Server. When a new version is registered, the old one will be deleted.



1. Click on [Register].

The file selection dialog box appears.

2. Select the update module for the Back-End Administrator or Back-End Client application.

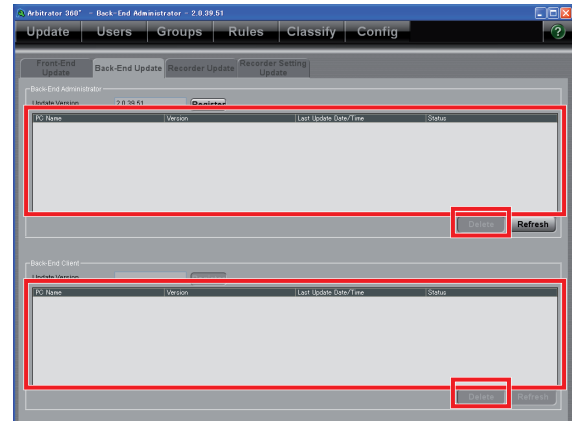
3. Click on [Open].

The update module is checked if it is correct. The application is registered if the module is correct. If it is not correct, an error message appears.

Updating the Back-End Update screen

Click on [Refresh]. The screen will be updated.

Deleting PC on which Back-End Administrator or Back-End Client application is running



1. Select PCs to be deleted on the Back-End Administrator or Back-End Client application list.

2. Click on [Delete].

A confirmation dialog box is displayed.

3. Click on [Yes].

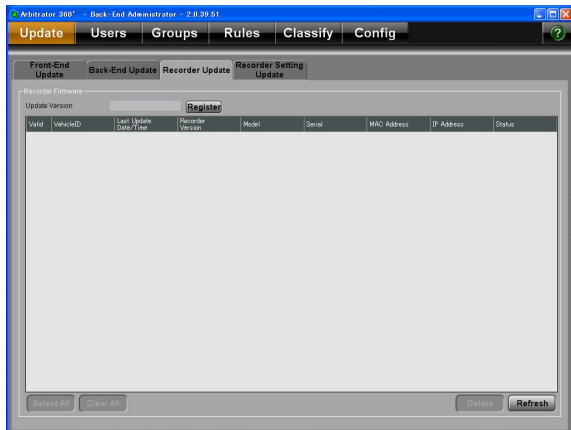
The selected PCs will be deleted from the list.

Cancel deleting

Click on [No] in the confirmation dialog box.

Updating the firmware of the Memory Card Video Recorder

The firmware of the Memory Card Video Recorder is updated via wired or wireless LAN. Click on the Recorder Update tab. The Recorder Update screen appears.



Confirming the update status of the recorder

On the Recorder Update screen, a list of the firmware of the Memory Card Video Recorder detected by the Back-End Server is displayed.

The Back-End Server identifies a Memory Card Video Recorder by using the MAC address of the recorder for connecting to the Front-End application. When a recorder is detected for the first time, it is registered in the database. If the Valid check box is not checked, the Back-End Server updates the items on the recorder list each time it detects the recorder.

Note that the recorder list on the screen is not updated before clicking on the [Refresh] button.

In the Update Version field, the latest version appears.

Editing Vehicle ID

Only when the Valid check box is not checked, Vehicle ID can be edited.

Click on the cell to be edited.

If the Valid check box is checked, Vehicle ID is not updated when the Memory Card Video Recorder is detected. It cannot be edited.

Updating the recorder

When the Valid check box is checked, the Back-End Server detects the checked Memory Card Video Recorder and transfers the firmware automatically. However, Field5 (Source) in the database is not updated.

To update the Memory Card Video Recorder after firmware transfer, reboot it.

Selecting all recorders

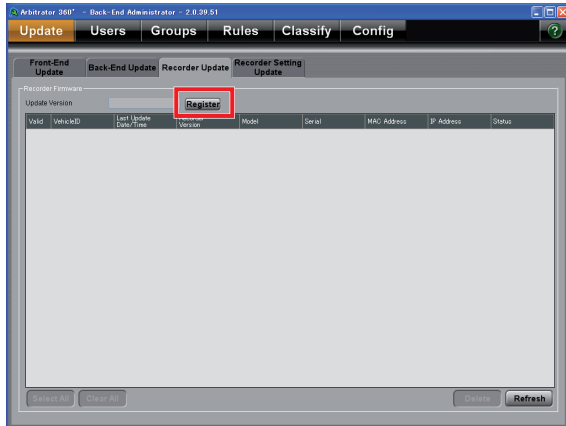
Click on [Select All]. All Valid check boxes will be checked.

Clearing selection of all recorders

Click on [Clear All]. All Valid check boxes will be unchecked.

Registering firmware

Only one version of the firmware can be registered in the Back-End Server. When a new version is registered, the old one will be deleted.



1. Click on **[Register]**.

The file selection dialog box appears.

2. Select the update firmware for the recorder.

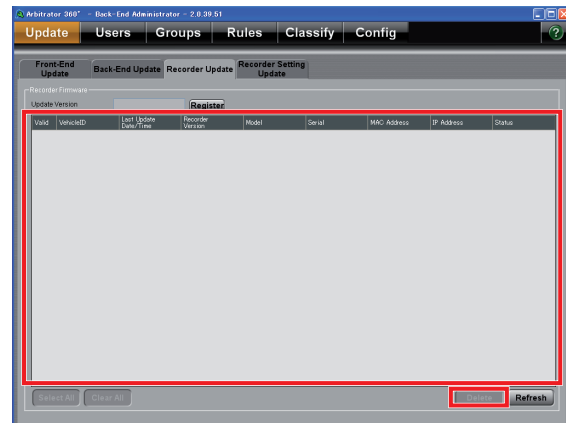
3. Click on **[Open]**.

The update firmware is checked if it is correct. The application is registered if the firmware is correct. If it is not correct, an error message appears.

Updating the Recorder Update screen

Click on **[Refresh]**. The screen will be updated.

Deleting the recorder



1. Select a recorder to be deleted on the **Recorder Firmware** list.

2. Click on **[Delete]**.

A confirmation dialog box is displayed.

3. Click on **[Yes]**.

The selected recorder will be deleted from the list.

Cancel deleting

Click on **[No]** in the confirmation dialog box.

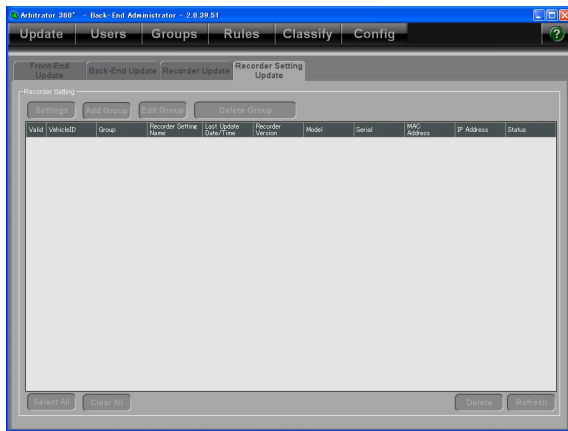
Updating the recorder settings

The configuration settings for the Memory Card Video Recorder can be updated via LAN or Wireless LAN. Setting items are the same as those set in administrator setup of the Front-End application.

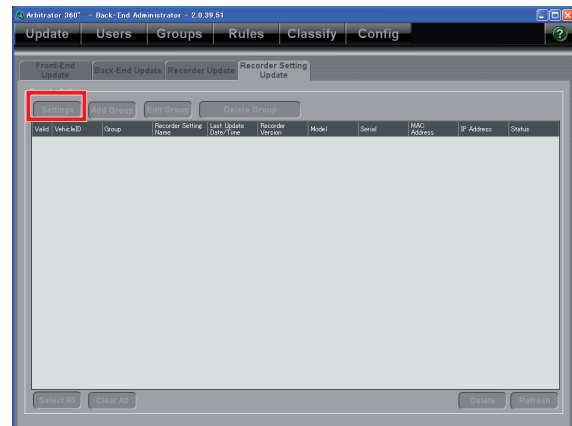
If Memory Card Video Recorders are grouped, the settings on all recorders belonging to a group will be updated at one time.

When the Back-End Server is installed, the recorder setting is created with the name "Default recorder settings". The settings can be edited and be saved with a different name, which enables creating and saving multiple recorder settings.

Click on the Recorder Setting Update tab. The Recorder Setting Update screen appears.



Creating the Memory Card Video Recorder settings

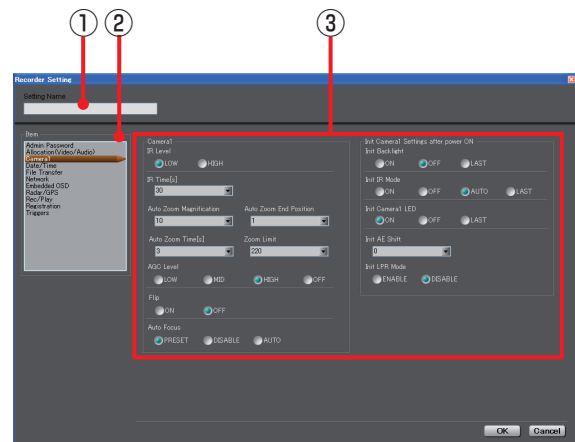


1. Click on [Settings].

The Recorder Setting screen is displayed.

2. Click on [Add].

The editing screen for the Recorder Setting is displayed.



- ① **Setting Name:** Name of the Memory Card Video Recorder settings
- ② **Item:** Setting category
- ③ **Setting section**

Operations (continued)

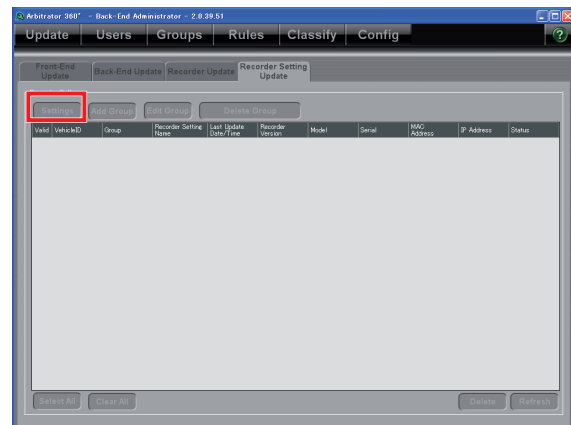
3. Enter the name of settings to be created in the Recorder Setting Name field.
4. Select a category to be set on the Item list.
5. Make necessary settings on the setting section.
(See "Memory Card Video Recorder Configuration Setting Screen," page 38.)
6. Click on [OK].

The settings are registered, and the Recorder Setting screen is updated.

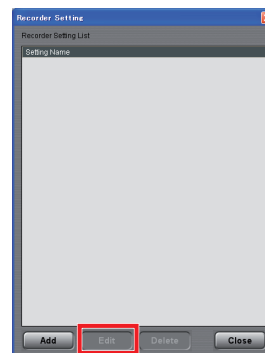
Note

If you change the displayed configuration setting screen without clicking on [OK] after changing settings, "Save and Apply Changes?" appears. Click on [OK] then change the screen.

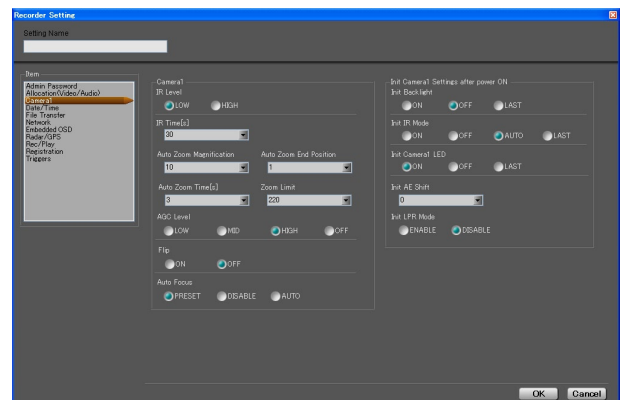
Editing the Memory Card Video Recorder settings



1. Click on [Settings].
The Recorder Setting screen is displayed.
2. Select a Recorder Setting Name to be edited on the Recorder Setting list.



3. Click on [Edit].
The editing screen for the Recorder Setting is displayed.



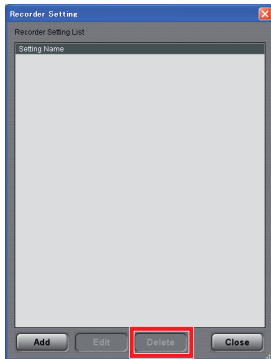
4. Edit the settings.
5. Click on [OK].
The settings are updated, and the Recorder Setting screen is updated.
6. Click on [Cancel].

Deleting the Memory Card Video Recorder settings

1. Click on [Settings].

The Recorder Setting screen is displayed.

2. Select a Setting Name to be deleted on the Recorder Setting list.



3. Click on [Delete].

A confirmation dialog box is displayed.

4. Click on [Yes].

The selected setting is deleted, and the Recorder Setting screen is updated.

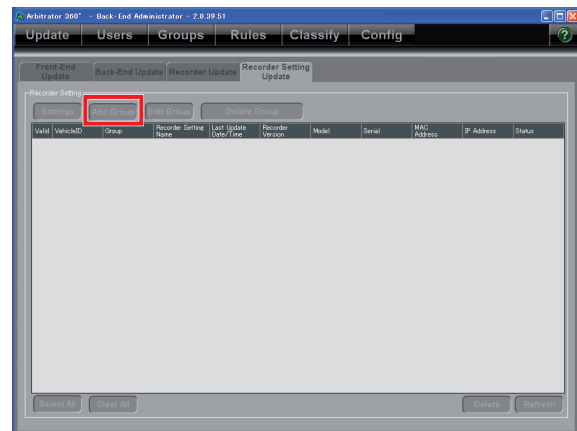
5. Click on [Close].

Cancel deleting

Click on [No] in the confirmation dialog box.

Grouping the Memory Card Video Recorders

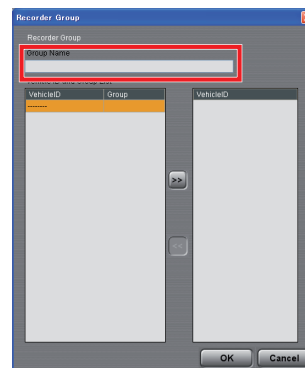
If multiple Memory Card Video Recorders are grouped, the settings on all recorders belonging to a group will be created and changed.



1. Click on [Add Group].

The Recorder Group screen is displayed.

2. Enter the group name in the Group Name field.



3. Select Vehicle IDs to be grouped on the Vehicle ID and Group List.

Multiple Vehicle IDs can be selected.

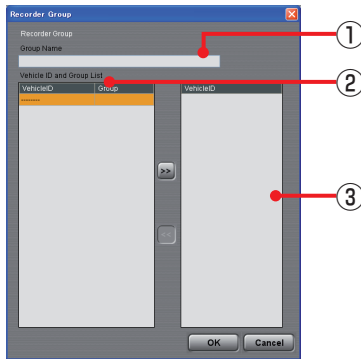
4. Click on [>>].

The Vehicle IDs selected in Step 3 moves to the Vehicle ID list.

5. Click on [OK].

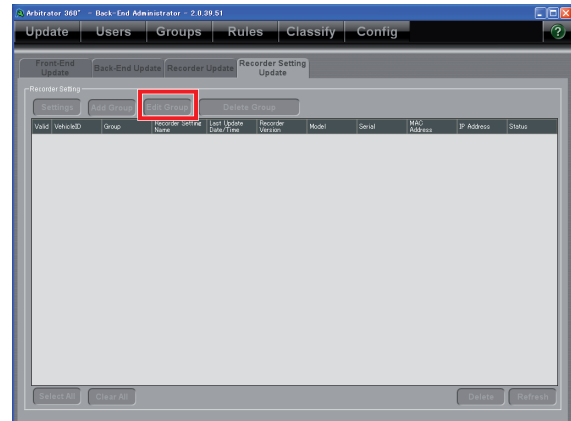
A Group is created, and the Recorder Group screen is closed. The created group is registered in the database.

Description of the Record Group screen



- ① **Group Name:** Enter the group name.
- ② **Vehicle ID and Group List:** Vehicle ID and their group name that do not belong to the group displayed in Group Name are listed.
- ③ **Vehicle ID:** Vehicle IDs that belong to the group displayed in Group Name are listed.

Editing the Memory Card Video Recorder group



1. **Select a Memory Card Video Recorder on the Recorder Setting Update screen.**

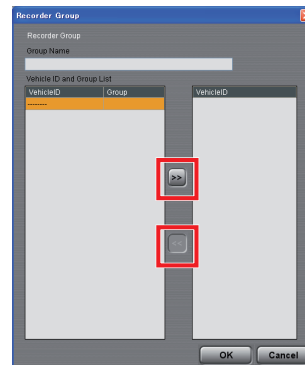
2. **Click on [Edit Group].**

The Recorder Group screen is displayed.

3. **Select a Vehicle ID to be added to or deleted from the group.**

To add a recorder to the group: Select a Vehicle ID on the Vehicle ID and Group List then click on [>>].

To delete a recorder from the group: Select a Vehicle ID on the Vehicle ID list then click on [<<]. Multiple Vehicle IDs can be selected.



4. **Click on [OK].**

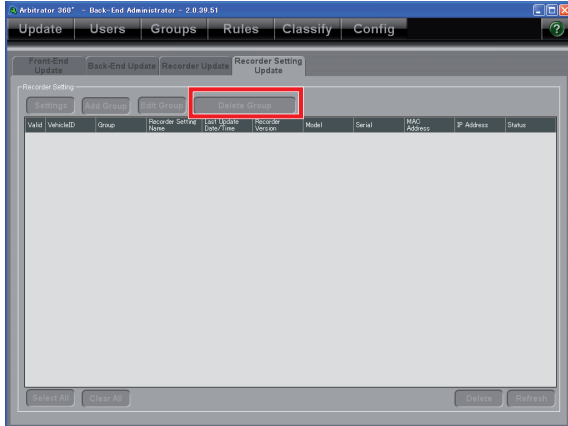
A Group editing operation is finished, and the Recorder Group screen is closed. The edited group is registered in the database.

Operations (continued)

Deleting a group

1. **Select a Memory Card Video Recorder with the Group to be deleted on the Recorder Setting Update screen.**

Multiple recorders can be selected.



3. **Click on [Delete Group].**
A confirmation dialog box is displayed.
4. **Click on [Yes].**
The group to which the Memory Card Video Recorder selected in Step 1 belongs is deleted, and the database is updated.

Cancel deleting

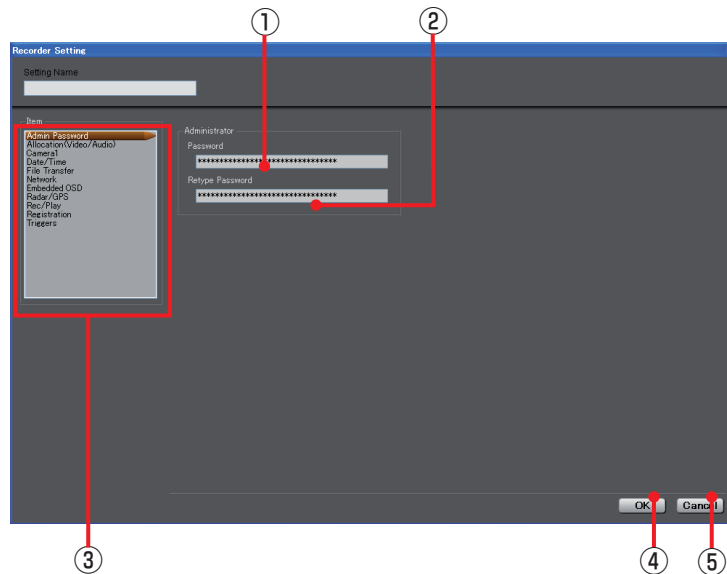
Click on [No] in the confirmation dialog box.

Memory Card Video Recorder Configuration Setting Screen

Note

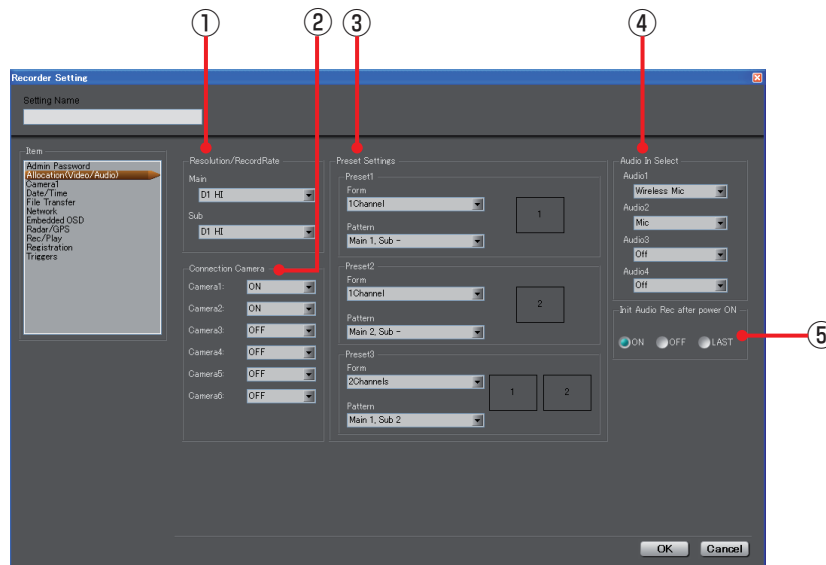
The default settings for various items are shown on the Setup list on pages 83 to 97.

Admin Password screen

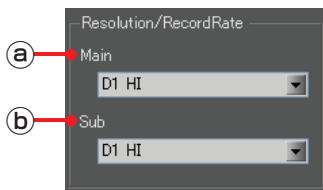


- ① **Password**
For inputting an administrator password.
- ② **Retype Password**
Re-enter the same string of password input in the Password field for reconfirmation.
- ③ **Item list**
A list of the setting screens is displayed. Clicking on a screen name will display the corresponding setting screen.
- ④ **OK button**
For changing the settings of the Memory Card Video Recorder to those set in the Config screen.
- ⑤ **Cancel button**
For canceling changes.

Allocation (Video/Audio) screen



① Resolution/RecordRate



① Main

The resolution and bit rate of the main video can be set.

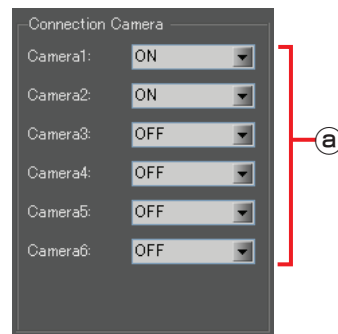
Setting values: D1 HI (720x480, high quality mode), D1 STD (720x480, standard quality mode), D1 10 (720x480, 10 frames/second), CIF (352x240, low quality mode)

② Sub

The resolution and bit rate of the sub video can be set.

Setting values: D1 HI (720x480, high quality mode), D1 STD (720x480, standard quality mode), D1 10 (720x480, 10 frames/second), CIF (352x240, low quality mode)

② Connection Camera



① Camera1, Camera2, Camera3, Camera4, Camera5, Camera6

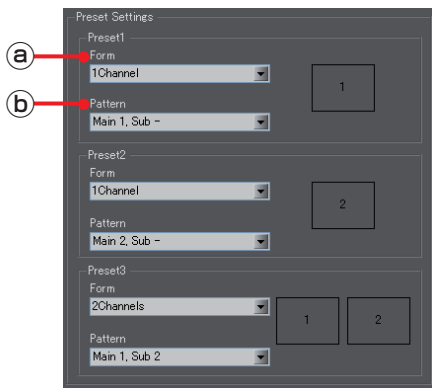
Set if a camera is connected to each of [CAMERA 1], [2], [3], [4], [5], and [6] connectors on the Memory Card Video Recorder.

When a camera is connected, set to ON, and when it is not connected, set to OFF.

Note

If either of the Main or Sub Resolution/RecordRate is set to "D1 10", the other is also set to "D1 10".

③ Preset Settings



For setting the channel mode and camera connection pattern for Preset 1, Preset 2, and Preset 3.

(See “Camera Connection and Combination of Cameras” on page 118.)

① Form

Set the channel mode.

② Pattern

Set the camera connection pattern.

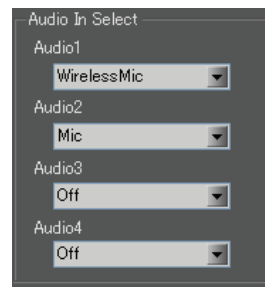
Setting values for Form and Pattern:

Form	Pattern
1Channel	Main 1, Sub -
	Main 2, Sub -
	Main 3, Sub -
2Channels	Main 1, Sub 2
	Main 1, Sub 3
	Main 2, Sub 3
4Channels QUAD	Main -, Sub 1456
	Main -, Sub 2456
	Main -, Sub 3456
4Channels PANORAMA	Main -, Sub 1456
	Main -, Sub 2456
	Main -, Sub 3456
5Channels QUAD	Main 1, Sub 2456
	Main 1, Sub 3456
	Main 2, Sub 3456
	Main 3, Sub 2456*1
5Channels PANORAMA	Main 1, Sub 2456
	Main 1, Sub 3456
	Main 2, Sub 3456
	Main 3, Sub 2456*1
NONE*2	

*1 This setting is enabled when the camera connected to the [CAMERA 1] connector is set to OFF.

*2 “None” is not selectable for Preset1 unless all camera connections are set to OFF.

④ Audio In Select



Select the type of microphones connected to each of [AUDIO IN 1], [2], [3], and [4] connectors on the Memory Card Video Recorder or turn the microphone off.

Setting values: Mic, Wireless Mic, Off

⑤ Init Audio Rec after power ON

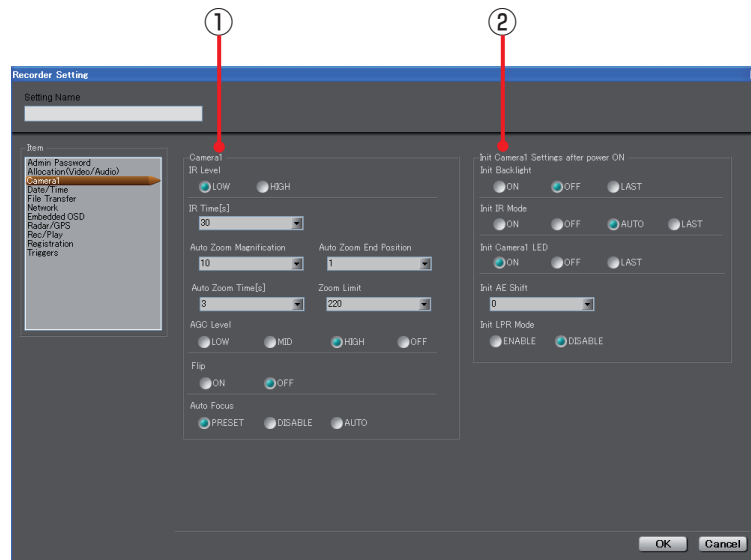


Set the audio recording status upon startup of the Memory Card Video Recorder.

The setting will be applied to all four audio channels.

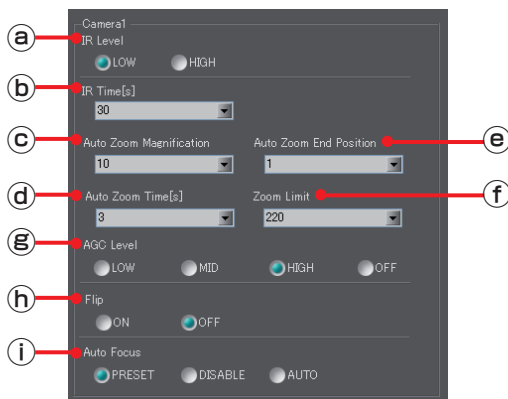
Setting values: ON, OFF, LAST

Camera1 screen



① Camera1

Perform the settings for the color camera that is connected to the [CAMERA 1] connector on the Memory Card Video Recorder.



a IR Level

Set the IR level for automatic switching of the IR function.

Setting values: LOW, HIGH

b IR Time [s]

Set the detection time for automatic switching of the IR function.

Setting values: 10, 30, 60, 300 seconds

c Auto Zoom Magnification

Set the maximum zoom magnification during automatic zooming.

Setting values: 1, 2, 3, 4, 5, 7, 10, 15, 22

d Auto Zoom Time [s]

Set the keeping time of the maximum zoom magnification during automatic zooming.

Setting values: 3, 5, 8 seconds

e Auto Zoom End Position

Set the automatic zooming end magnification.

Setting values: 1, 2, 3, 4, 5, 7, 10, 15, 22, LAST

f Zoom Limit

Set the maximum zoom magnification.

Setting values: 22, 220

g AGC Level

Set the level of the camera input gain control.

Setting values: LOW, MID, HIGH, OFF

h Flip

Set if flipping of the camera output image will be performed or not.

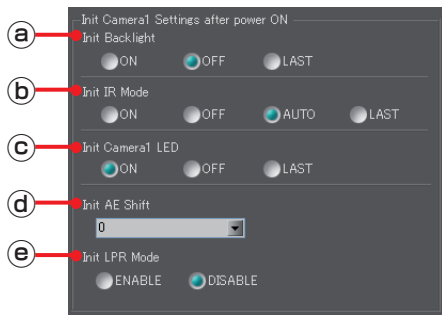
Setting values: ON, OFF

i Auto Focus

Set a focusing method of the camera.

Setting values: PRESET, DISABLE, AUTO

② Init Camera1 Settings after power ON



The status of the color camera when it is turned on can be set.

Ⓐ Init Backlight

Set the backlight compensation function setting upon power-on of the Memory Card Video Recorder.

Setting values: ON, OFF, LAST

Ⓑ Init IR Mode

Set the IR mode upon power-on of the Memory Card Video Recorder.

Setting values: ON, OFF, AUTO, LAST

Ⓒ Init Camera 1 LED

Set the status of the [REC] lamp on the camera connected to the [CAMERA 1] connector on the Memory Card Video Recorder upon power-on.

Setting values: ON, OFF, LAST

Ⓓ Init AE Shift

Set the brightness of images upon power-on of the Memory Card Video Recorder.

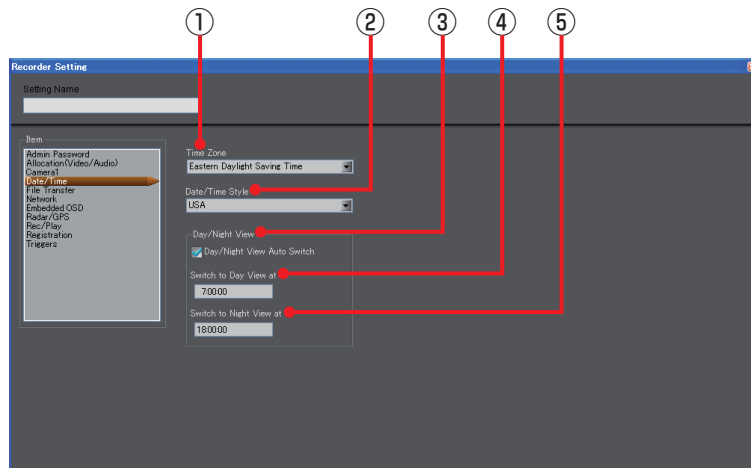
Setting values: 2, 1, 0, -1, -2, LAST

Ⓔ Init LPR Mode

Set if the LPR mode is enabled or not upon power-on of the Memory Card Video Recorder.

Setting values: ENABLE, DISABLE

Date/Time screen



① Time Zone

Set the time zone.

Setting values:

Hawaii Standard Time
Yukon Standard Time
Yukon Daylight Saving Time
Pacific Standard Time
Pacific Daylight Saving Time
Mountain Standard Time
Mountain Daylight Saving Time
Central Standard Time
Central Daylight Saving Time
Eastern Standard Time
Eastern Daylight Saving Time
Atlantic Standard Time
Atlantic Daylight Saving Time
Asia Tokyo

② Date/Time Style

Set the display pattern of date and time.

Setting values: ISO, USA

③ Day/Night View

Select if Day and Auto Switch Night views are automatically switched or not. When a check mark is placed in the box, Day/Night views are switched automatically.

Note

This setting is enabled on the Front-End application only.

④ Switch to Day View at

Set the time when Night mode is changed to Day mode.

Setting range: 00:00:00 AM-11:59:59 PM

⑤ Switch to Night view at

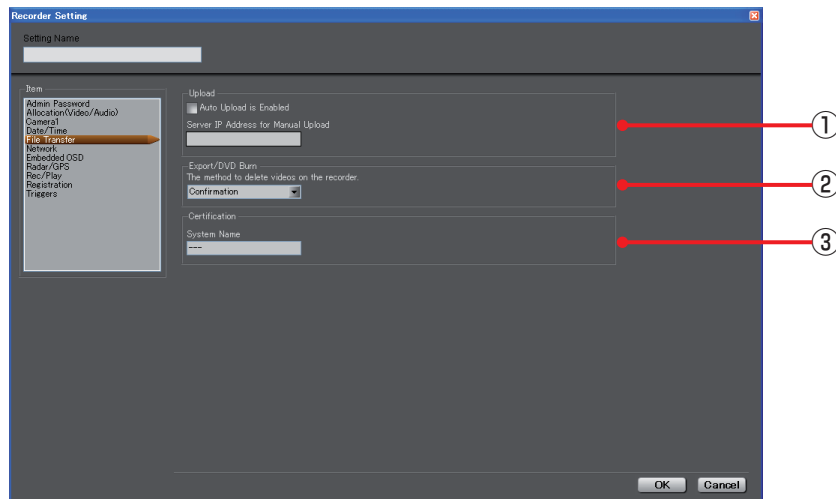
Set the time when Day mode is changed to Night mode.

Setting range: 00:00:00 AM-11:59:59 PM

Note

Displayed time (12/24-hour system) depends on the setting on your PC.

File Transfer screen



① Upload



a Auto Upload is Enabled

Automatic uploading is enabled when a check mark is placed in the box.

b Server IP Address for Manual Upload

Set the IP address of the Back-End Server for manual uploading.

③ Certification



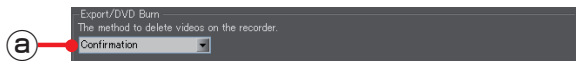
a System Name

Set the system name of the Memory Card Video Recorder within 50 characters. When the Recorder directly communicates with the Back-End system, the communication is enabled only when the name set here and that registered in the Back-End system are the same.

Note

This setting is enabled on the Front-End application only.

② Export/DVD Burn



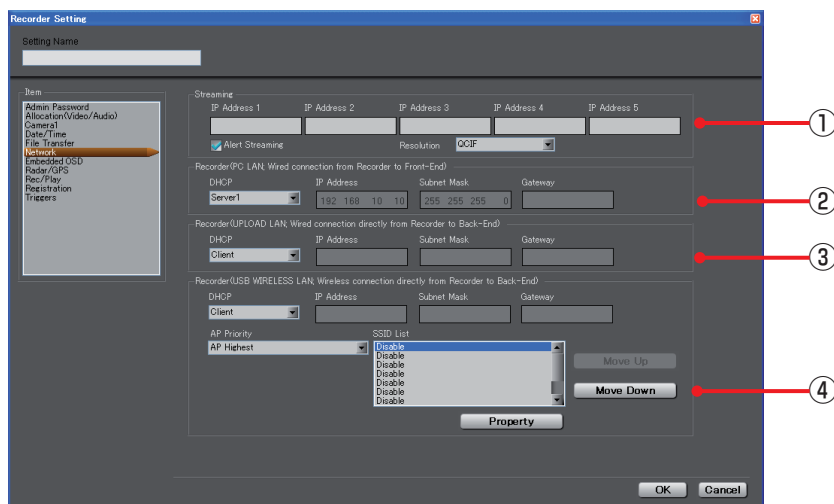
a The method to delete videos on the recorder

Select how to delete video files from the Memory Card Video Recorder after data exporting or DVD burning.

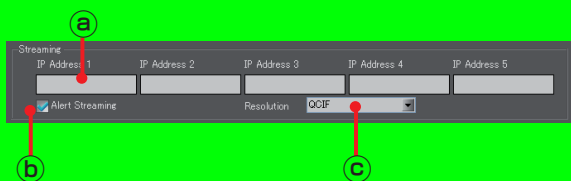
Setting values: Force, Confirmation

Exporting from the Front-End application is not available at present. Upgrading is scheduled for the future.

Network screen



① Streaming



a Server IP Address List

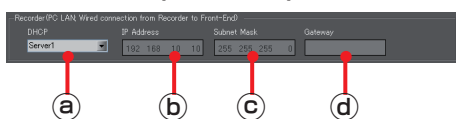
Set the IP Addresses of the Back-End Server for streaming. Up to 5 IP addresses can be registered. The Front-End application periodically sends packets to these IP addresses. The Back-End Server recognizes the sender of the received packets as a streaming target. A Front-End application can connect with a single Back-End Server at a time.
No IP address is set as default.

b Alert Streaming

If a check mark is placed in the box, when streaming is in progress in the Back-End Administrator application, that is indicates on the Front-End application screen. This function is enabled as default.

Streaming is not available at present. Upgrading is scheduled for the future.

② Recorder (PC LAN)



a DHCP

Set if the LAN port on the Memory Card Video Recorder that is used for connecting to the Front-End application is to operate as a DHCP server or not.

Setting values: OFF, Server1, Server2, Server3, Server4

b IP Address

Set the IP address for the LAN port on the Memory Card Video Recorder that is used for connecting to the Front-End application. This setting is enabled when DHCP is set to OFF.

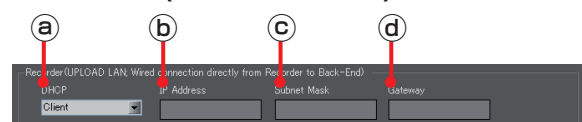
c Subnet Mask

Set the subnet mask for the LAN port on the Memory Card Video Recorder that is used for connecting to the Front-End application. This setting is enabled when DHCP is set to OFF.

d Gateway

Set the default gateway for the LAN port on the Memory Card Video Recorder that is used for connecting to the Front-End application. This setting is enabled when DHCP is set to OFF.

③ Recorder (UPLOAD LAN)



The settings for the wired LAN port on the Memory Card Video Recorder that is used for connecting to the Back-End Server can be performed.

a DHCP

Select if the IP address for the wired LAN port on the Memory Card Video Recorder will be obtained from the DHCP server or not.

Setting values: OFF, Client

b IP Address

Set the IP address. This setting is enabled when DHCP is set to OFF.

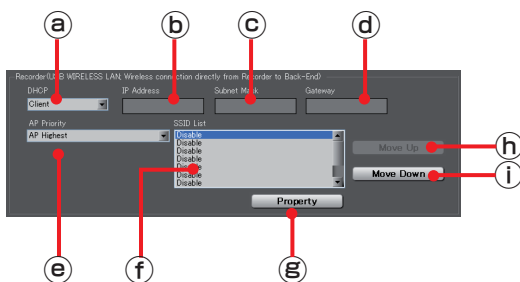
c Subnet Mask

Set the subnet mask. This setting is enabled when DHCP is set to OFF.

d Gateway

Set the default gateway. This setting is enabled when DHCP is set to OFF.

④ Recorder (USB WIRELESS LAN)



The settings for the USB wireless LAN port on the Memory Card Video Recorder that is used for connecting the Back-End Server can be performed.

Ⓐ DHCP

Select if the IP address for the USB wireless LAN port on the Memory Card Video Recorder will be obtained from the DHCP server or not.

Setting values: OFF, Client

Ⓑ IP Address

Set the IP address. This setting is enabled when DHCP is set to OFF.

Ⓒ Subnet Mask

Set the subnet mask. This setting is enabled when DHCP is set to OFF.

Ⓓ Gateway

Set the default gateway. This setting is enabled when DHCP is set to OFF.

Ⓔ AP Priority

Set the priority of connections to the access points.

Setting values: AP Highest, Random

Ⓕ SSID List

For displaying the SSIDs for the access points. Up to 10 SSIDs are displayed.

Ⓖ Property button

For editing data of the access point selected in the SSID List. Click to display the Access Point Setting screen.

Ⓗ Move Up button

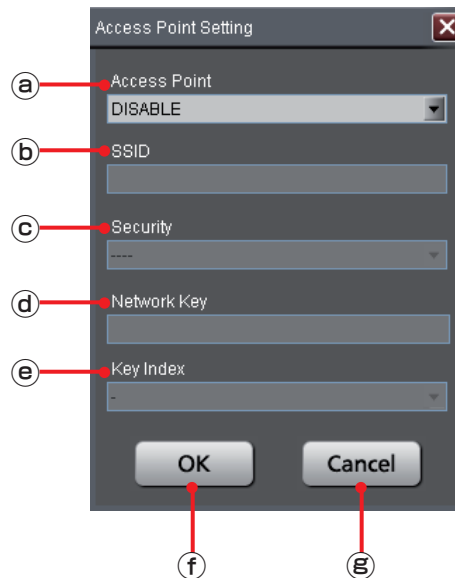
For raising the priority of the connection order for access points.

Ⓖ Move Down button

For lowering the priority of the connection order for access points.

Access Point Setting screen

This screen is displayed when the [Property] button is pressed on the Network screen.



Ⓐ Access Point

Select if the access point settings are enabled or not.

Setting values: ENABLE, DISABLE

Ⓑ SSID

Set the SSID for the wireless LAN module connected to the Memory Card Video Recorder.

Ⓒ Security

Set the encryption method for the wireless LAN module connected to the Memory Card Video Recorder.

Setting values: WEP, WPA/WPA2-PSK, NONE

Ⓓ Network Key

Set the network key for the wireless LAN module connected to the Memory Card Video Recorder when Security is set to WEP or WPA.

Ⓔ Key Index

Set the network key index for the wireless LAN module connected to the Memory Card Video Recorder when Security is set to WEP.

Setting values: 1, 2, 3, 4

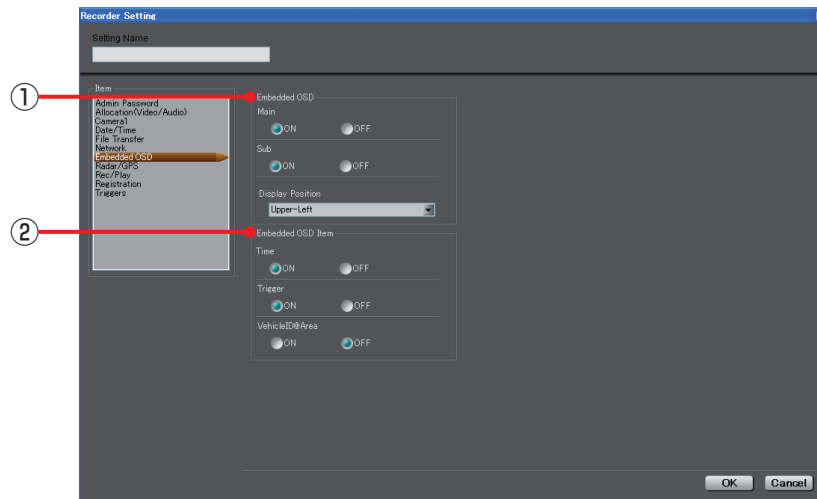
Ⓕ OK button

For registering the settings to the SSID list.

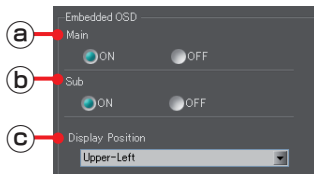
Ⓖ Cancel button

For canceling the settings.

Embedded OSD screen



① Embedded OSD



(a) Main

Select if the Embedded OSD is displayed on the main video or not.

Setting values: ON, OFF

(b) Sub

Select if the Embedded OSD is displayed on the sub video or not.

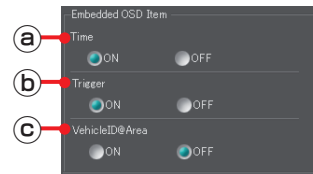
Setting values: ON, OFF

(c) Display Position

Set the Embedded OSD display position.

Setting values: Upper-Left, Upper-Right, Bottom-Left, Bottom-Right

② Embedded OSD Item



(a) Time

Select if time is displayed as an Embedded OSD.

Setting values: ON, OFF

(b) Trigger

Select if trigger indications are to be displayed as Embedded OSD.

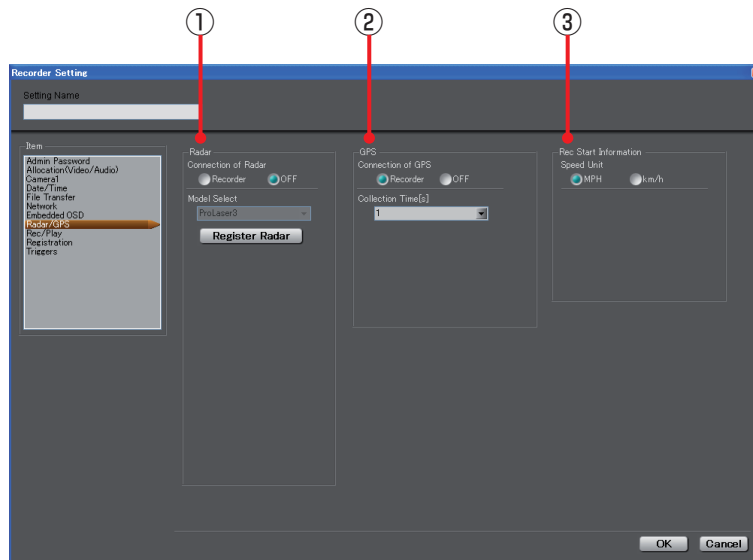
Setting values: ON, OFF

(c) VehicleID@Area

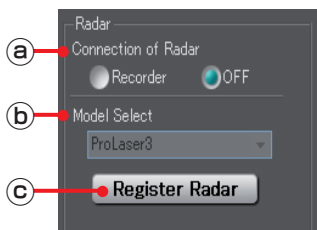
Select if the vehicle ID and area are to be displayed as Embedded OSD.

Setting values: ON, OFF

Radar/GPS screen



① Radar



(a) Connection of Radar

Select if a radar gun is connected to the Memory Card Video Recorder or not.

Setting values: Recorder, OFF

(b) Model Select

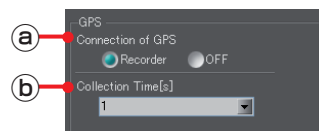
Select the model name of the connected radar gun from the drop-down list.

Setting values: ProLaser3, STALKER_DUAL, GOLDEN_EAGLE_II

(c) Register Radar button

For registering the radar gun library to the Memory Card Video Recorder.

② GPS



(a) Connection of GPS

Select if the GPS is connected to the Memory Card Video Recorder or not.

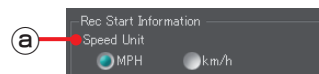
Setting values: Recorder, OFF

(b) Collection Time [s]

Select an interval of collecting data from the GPS.

Setting values: 1, 2, 5, 10 seconds

③ Rec Start Information

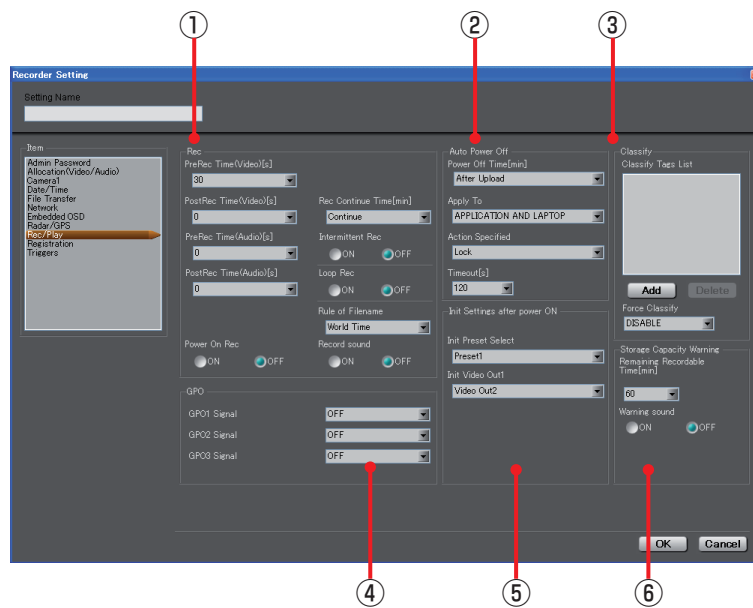


(a) Speed Unit

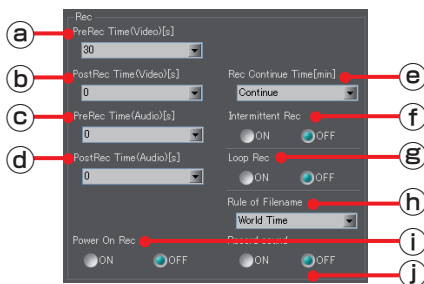
Select the speed unit.

Setting values: MPH, km/h

Rec/Play screen



① Rec



a PreRec Time (Video) [s]

Select the pre-recording time for video.

Setting values: 0, 10, 20, 30, 60, 90 seconds

b PostRec Time (Video) [s]

Select the post-recording time for video.

Setting values: 0, 10, 20, 30, 60, 90 seconds

c PreRec Time (Audio) [s]

Select the pre-recording time for audio.

Setting values: 0, 3, 10, 20, 30, 60, 90 seconds

d PostRec Time (Audio) [s]

Select the post-recording time for audio.

Setting values: 0, 3, 10, 20, 30, 60, 90 seconds

e Rec Continue Time [min]

Select the recording duration..

Setting values: Continue, 1, 2, 5, 10, 15, 20, 30, 60, 90 minutes

f Intermittent Rec

Select if the intermittent recording mode is enabled or not.

Setting values: ON, OFF

g Loop Rec

Select if the loop recording mode is enabled or not.

Setting values: ON, OFF

h Rule of Filename

Select the time system to be used in the video filename that is recorded on the Memory Card Video Recorder.

Setting values: World Time, Local Time

i Power On Rec

Select if recording is started when the Memory Card Video Recorder is turned on.

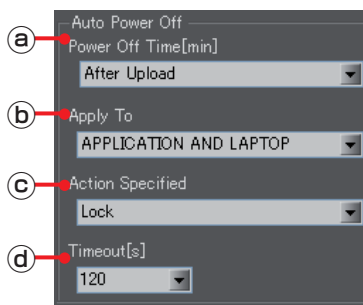
Setting values: ON, OFF

j Record sound

Select if a beep sounds every minute during recording.

Setting values: ON, OFF

② Auto Power OFF



(a) Power Off Time [min]

Select the time required from the ACC is turned off up to the Memory Card Video Recorder is turned off.

Setting values: 0, 10, 20, 30, 60, 90, 120, 180 minutes, After Upload

(b) Apply To

When Power Off Time is set to After Upload, select which one's uploading is to be observed.

Setting values: APPLICATION ONLY, LAPTOP ONLY, APPLICATION AND LAPTOP

Note

This setting is enabled on the Front-End application only.

(c) Action Specified

When Power Off Time is set to After Upload, select which action is to be taken by the subject(s) after uploading is completed.

Setting values:

Setting values depend on the setting of Apply To.
 APPLICATION ONLY: Close
 LAPTOP ONLY: Lock, Stand by
 APPLICATION AND LAPTOP: Lock, Log off, Shutdown, Stand by

Note

This setting is enabled on the Front-End application only.

(d) Timeout [s]

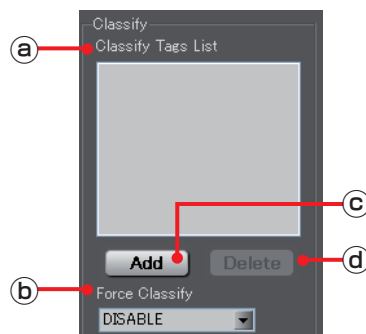
When Power Off Time is set to After Upload, select the time required from the specified action is taken till the Memory Card Video Recorder is turned off.

Setting values: 30, 60, 90, 120 seconds

Notes

- This setting is enabled on the Front-End application only.
- When the vehicle's ignition switch is set to ACC-OFF with Upload Mode on the File Transfer screen in Config setup set to MANUAL and Power Off Time on the Rec/Play screen set to AUTO, uploading will start automatically.

③ Classify



(a) Classify Tags List

The names of the registered classify tags are displayed. Up to 50 classify tags can be registered.

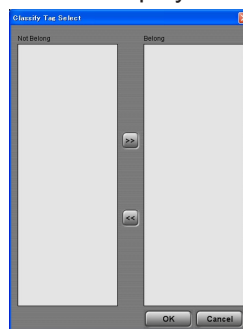
(b) Force Classify

Select if the user is forced to add classify information at the end of recording.

Setting values: DISABLE, ENABLE, FORCE

(c) Add button

Click to display the Classify Tag Select screen.

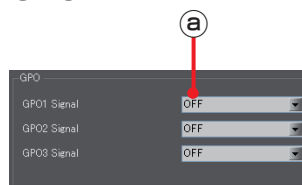


Classify tags registered on the Classify screen are displayed on the Not Belong list. Select Classify tags and click on the [>>] button. Then the selected tags move to the Belong list on the right. If you click on [OK], and the tags will be listed on the Classify Tags list.

(d) Delete button

Click to delete classify tags selected on the Classify Tags List.

④ GPO



(a) GPO1 Signal, GPO2 Signal, GPO3 Signal

Select if the recording and recording error statuses are output to GPO 1, 2, and 3.

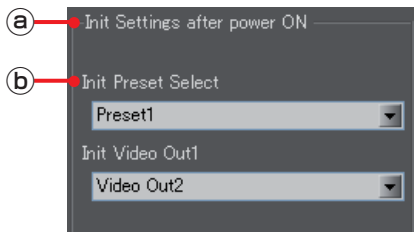
Setting values:

GPO1 Signal, GPO2 Signal: OFF, REC, ERROR, REC+ERROR,
GPO3 Signal: OFF, REC

Note

The functions of GPO1, GPO2, and GPO3 can be changed with settings. GPO4 always outputs the power status of the recorder, and has no setting.

⑤ Init Settings after power ON



① Init Preset Select

Select a preset applied when the Memory Card Video Recorder is turned on.

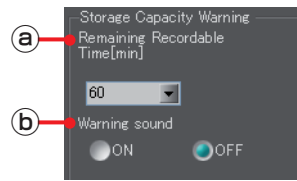
Setting values: Preset1, Preset2, Preset3, LAST

② Init Video Out1

Select a signal to be output from the [VIDEO OUT 1] connector of the Memory Card Video Recorder when it is turned on.

Setting values: CAM1, CAM3, Video Out2, LAST

⑥ Storage Capacity Warning



① Remaining Recordable Time[min]

A warning sounds when the remaining recordable time becomes shorter than the value set here.

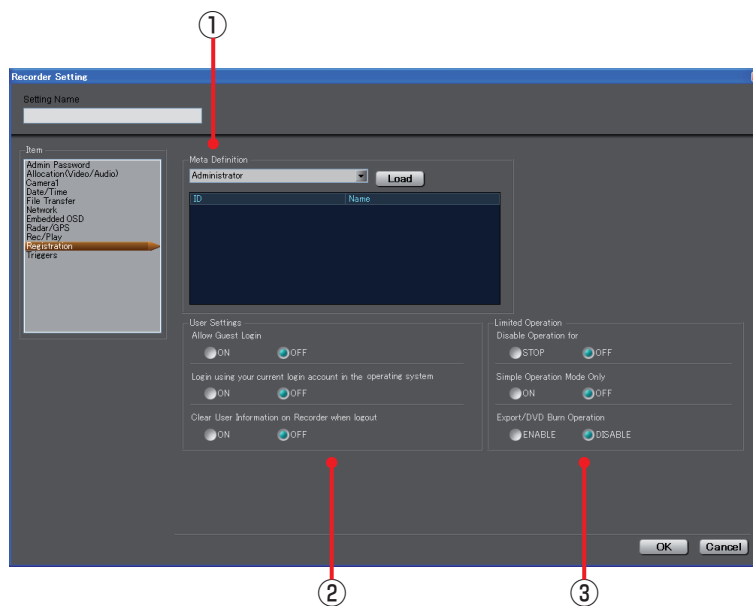
Setting values: 30, 60, 90 (minutes)

② Warning sound

Select if a short beep is to sound twice every 30 seconds when the remaining recordable time becomes shorter than the set value.

Setting values: ON, OFF

Registration screen



① Meta Definition



① Meta Definition

Select the type of meta definition to be registered to the Memory Card Video Recorder.

Setting values: Administrator, Agency, Unit, Shift, Area, VehicleID

Note

Meta Definitions can be changed when installing the Back-End Server.

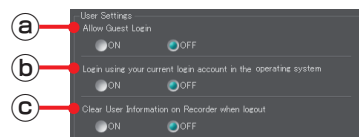
② Load button

For loading data specified at Meta Definition and registering the data to the Memory Card Video Recorder.

③ Meta Definition list

The meta definition data loaded are displayed on this list.

② User Settings



① Allow Guest Login

Select if login of a user who has not been registered in the Back-End Server or the Memory Card Video Recorder is permitted or not.

Setting values: ON, OFF

② Login using your current login account in the operating system

When set to ON, if the current login user name to the PC is the same as that to the Front-End application, the login screen with the password entered will be displayed.

Setting values: ON, OFF

Note

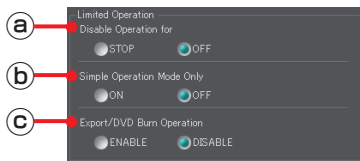
This setting is enabled on the Front-End application only.

③ Clear User Information on Recorder when logout

Select if the user information of the Memory Card Video Recorder is deleted upon logout.

Setting values: ON, OFF

③ Limited Operation



Ⓐ Disable Operation for

Set the operation prohibited by a user.

Setting values: STOP, OFF

Ⓑ Simple Operation Mode Only

When set to ON, a user can use only Simple Operation mode.

Regardless of this setting, the administrator can use both Simple Operation mode and Full Operation mode.

Setting values: ON, OFF

Note

This setting is enabled on the Front-End application only.

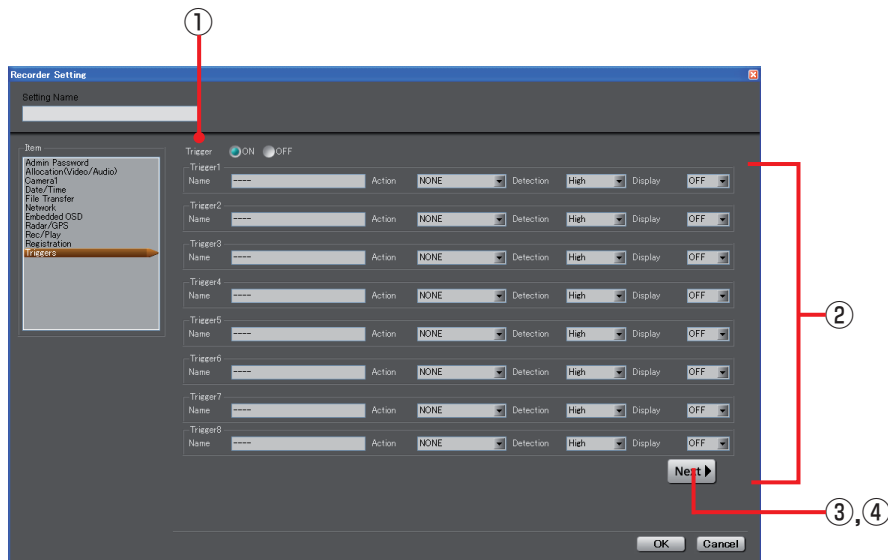
Ⓒ Export/DVD burn Operation

Set if **export and** DVD burn is enabled by a user.

Setting values: ENABLE, DISABLE

Exporting from the Front-End application is not available at present. Upgrading is scheduled for the future.

Triggers screen



① Trigger

Set if the GPI trigger function is used or not.

Setting values: ON, OFF

② Trigger 1-Trigger 16



a Name

Specify the name of a GPI trigger with up to 15 characters.

b Action

Select the action of a GPI trigger.

Setting values:

<Trigger 1-Trigger 16>

NONE, REC, STOP, AUTOZOOM, CAM1LED, Preset 1, Preset 2, Preset 3, Preset 1 Rec, Preset 2 Rec, Preset 3 Rec, AUDIO2ON, AUDIO2MUTE

<Trigger 15-Trigger 16>

TGT(REC), TGT(P1REC), TGT(P2REC), TGT(P3REC), OWN(REC), OWN(P1REC), OWN(P2REC), OWN(P3REC)

c Detection

Select the condition for a GPI trigger to action.

Setting values:

<Trigger 1-16>

Low, High, Both, Level High, Level Low

<Trigger 15-16>

OFF, 1, 2, . . . 200

d Display

Select a trigger code that is to be displayed on a video.

Setting values: OFF, -, A to Z

③ Next button

For displaying the Setup screen for Trigger 9 to Trigger 16.

④ Prev button

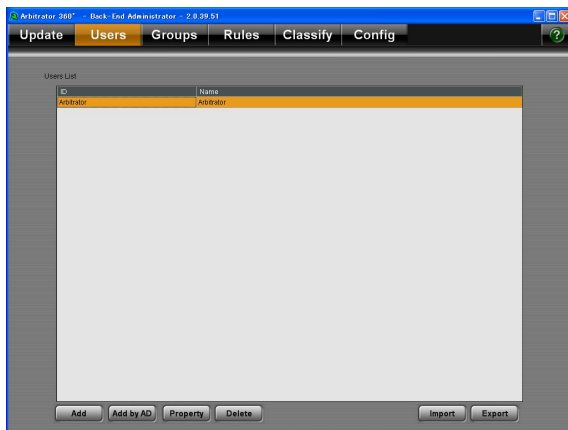
For displaying the Setup screen for Trigger 1 to Trigger 8.

Note

TGT and OWN can be set to either Trigger 15 or Trigger 16, but not to both of them.

Registering Users

User registration as an administrator or an officer is required for use of the Back-End Administrator or Back-End Client application or Front-End application. When the Back-End Administrator application is installed, a user named "Arbitrator", who has all rights and cannot be deleted, is registered. On the user registration screen, registering a new user, viewing registered users, changing the registered user information, and deleting user registration are enabled. Click on [Users]. The Users screen will be displayed.



3. Specify the rights to be given to the user.

Check the rights to be given to the user on the Right List.

For selecting all rights:

Click on [Select All].

For releasing all right:

Click on [Clear All].

4. Set a group.

Select a group on the All other groups List then click on [>].

5. Click on [OK].

The Property screen will close, and the user will be registered.

Note

For the following cases, an error message appears:

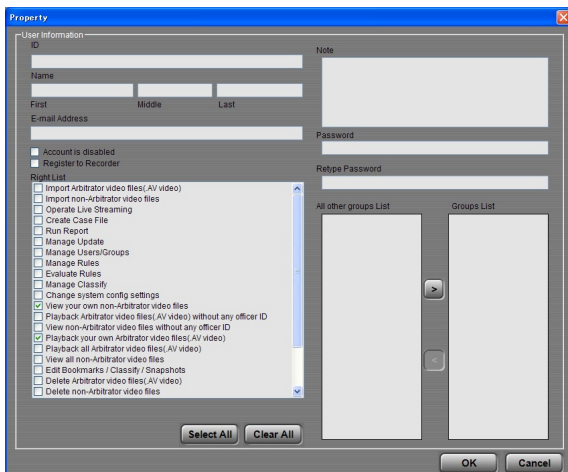
- The user ID is not entered.
- The user ID is not unique.
- The password is different from the retyped password.
- Password character(s) and/or length is wrong.
- The upper limit of number of registered users is exceeded.
- The user registered to the Memory Card Video Recorder exceeds 1,000.

Adding the user

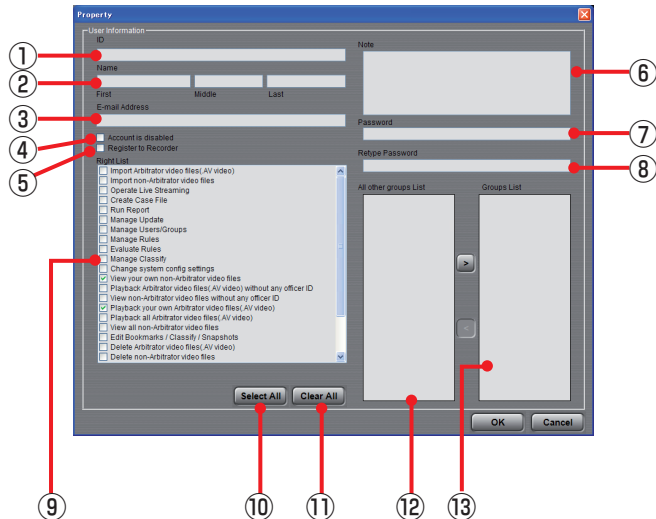
1. Click on [Add].

The Property screen will be displayed.

2. Enter the User information.



Description of the Property screen



- ① **ID:** Enter the user ID used on logging in.
Upper- and lower-case letters are not distinguished.
- ② **Name:** Enter the user name (First: first name, Middle: middle name, Last: Last name).
- ③ **E-mail Address:** Enter the e-mail address of the user.
- ④ **Account is disabled:** If checked, the user registered on the Memory Card Video Recorder cannot log in.
- ⑤ **Register to Recorder:** If checked for one or more users, they will be registered on the Memory Card Video Recorder connected to the Back-End Server. Note that the Officer list of the recorder will be overwritten upon the registration. If “Account is disabled” is checked, this setting is disabled. If the users are registered on the Officer list of the recorder, they will be deleted from the list.
- ⑥ **Note:** Enter note of the user.
- ⑦ **Password:** Enter the password. If the user ID is imported from Active Directory, entering of the password is disabled.
- ⑧ **Retype Password:** Retype the password to confirm it. If the user ID is imported from Active Directory, retyping of the password is disabled.
- ⑨ **Right List:** Check the rights to be given to the user. “View your own non-Arbitrator video files” and “Playback your own Arbitrator video files (.AV video)” are checked as default. Right-clicking enables selecting all rights and clearing all rights. (See “Right list,” page 57.)
- ⑩ **Select All:** Check the all rights.
- ⑪ **Clear All:** Uncheck the all rights.

- ⑫ **All other groups List:** The group list to which the user does not belong is displayed. Right-clicking enables the same operation as clicking on [>].
- ⑬ **Groups List:** The group list to which the user belongs is displayed. Right-clicking enables the same operation as clicking on [<].

Operations (continued)

Right list

The rights shown in the table below can be set on the Right List of the Property screen.

Right	Description
Import Arbitrator video files (.AV video)	Allow the user to import the .AV video files from SD card, P2 card or other media.
Import non-Arbitrator video files	Allow the user to import the files except .AV videos recorded by VPU from SD card, P2 card or other media.
Operate Live Streaming	Allow the user to execute live streaming incl. camera control.
Create Case File	Allow the user to create case file.
Run Report	Allow the user to run the reporting.
Manage Update	Allow the user to create, delete, modify "remote update settings".
Manage Users/Groups	Allow the user to create, delete, modify users and user groups.
Manage Rules	Allow the user to create, delete, modify the evidence rules.
Evaluate Rules	Allow the user to evaluate the evidence rules.
Manage Classify	Allow the user to create, delete, modify the Classify information.
Change system config settings	Allow the user to modify the system config settings.
View your own non-Arbitrator video files	Allow the user to see files associated to their user.
Playback Arbitrator video files (.AV video) without any officer ID	Allows the user to playback .AV videos without any officer ID.
View non-Arbitrator video files without any officer ID	Allow the user to playback files without any officer ID except .AV videos.
Playback your own Arbitrator video files(.AV video)	Allow the user to playback .AV videos associated to their user.
Playback all Arbitrator video files(.AV video)	Allow the user to playback all .AV video files.
View all non-Arbitrator video files	Allow the user to see all files except .AV videos.
Edit Bookmarks / Classify / Snapshots	Allows the user to create, delete, modify Bookmarks, Classify and Snapshots.
Delete Arbitrator video files(.AV video)	Allow the user to delete .AV video files.
Delete non-Arbitrator video files	Allow the user to delete files except .AV videos.
Verify Arbitrator video files(.AV video)	Allow the user to run a file integrity check of the .AV video files.
Export Arbitrator video files(.AV video)	Allow the user to export a copy, format converting copy of .AV video and burn into DVD video.
Export non-Arbitrator video files	Allow the user to export a copy file except .AV videos.
Archive Arbitrator video files(.AV video)	Allow the user to move .AV videos to archive area or to return them from archive area.
Archive non-Arbitrator video files	Allow the user to move files except .AV videos to archive area or to return them from archive area.

Streaming and Convert Copy are not available at present. Upgrading is scheduled for the future.

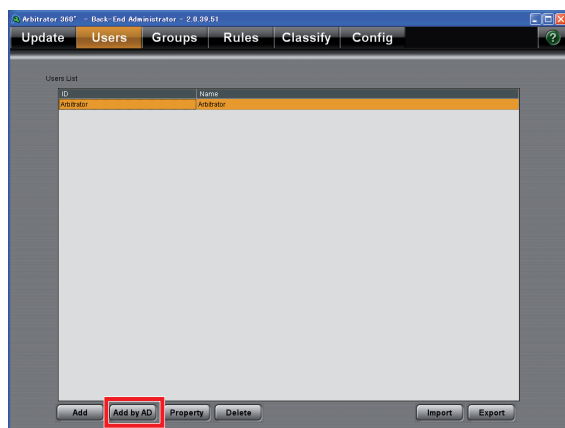
Adding a user using Active Directory

The user can be registered to the Back-End Server by retrieving the user information from the Active Directory. Information that can be retrieved from the Active Directory is as shown below.

- User ID
- Full name of user
- E-mail address

Notes

- The password is retrieved from the Active Directory. The user can be logged in with the Active Directory password. When the user is logged in for the first time, entering the password is requested.
- The rights shown below are enabled as default.
 - View your own non-Arbitrator video files
 - Playback your own Arbitrator video files (.AV video)



1. Click on [Add by AD].

The Active Directory screen is displayed.

2. Enter the required information in the Servers Setting section.



3. Click on [Connect].

Users registered in the Active Directory are displayed on the Users tab, and Groups are displayed on the Groups tab.

4. Select a user or group to be registered.

Multiple users or groups can be selected.

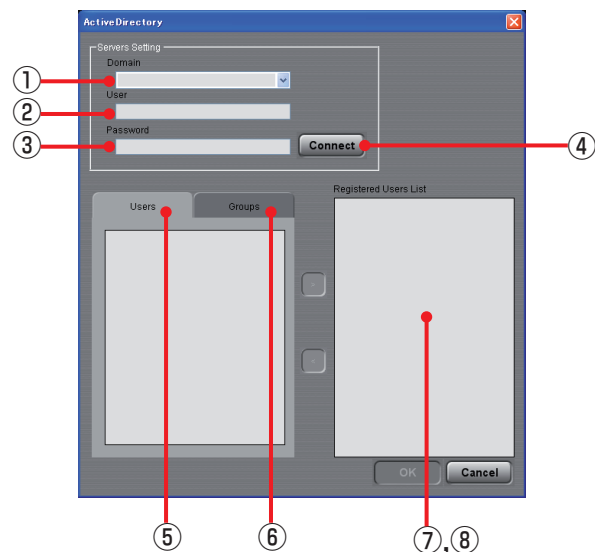
5. Click on [>].

The selected user or group moves to the Registered Users List or Registered Groups List.

6. Click on [OK].

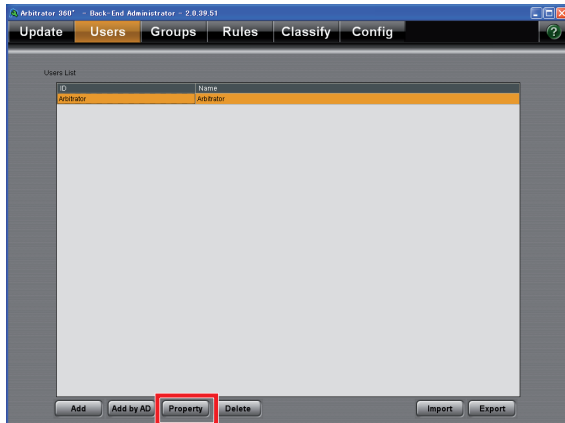
The Active Directory screen is closed, and the user or group will be registered.

Description of Active Directory screen



- ① **Domain:** Select the server name or IP address of the Active Directory server on the dropdown list.
- ② **User:** Enter the user name who is enabled to log into the Active Directory server.
- ③ **Password:** Enter the login password in the Active Directory field.
- ④ **Connect:** For connecting to the Active Directory server
- ⑤ **Users:** Users registered in the Active Directory server are listed. Right-clicking enables the operation of the [>] button.
- ⑥ **Groups:** Groups registered in the Active Directory server are listed. Right-clicking enables the operation of the [>] button.
- ⑦ **Registered Users List:** User name registered in the database are listed (when the Users tab is selected). Right-clicking enables the operation of the [<] button.
- ⑧ **Registered Groups List:** Group name registered in the database are listed (when the Groups tab is selected). Right-clicking enables the operation of the [<] button and displaying the list if users registered to the group.

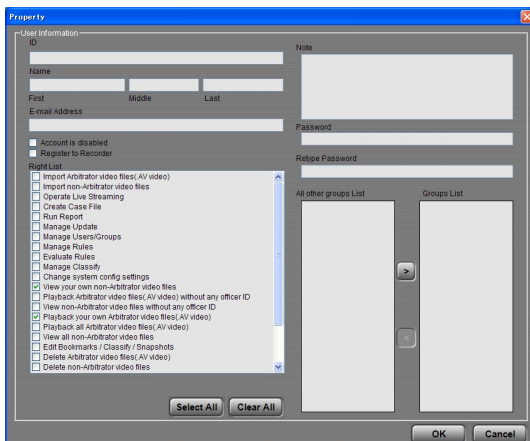
Displaying and editing the user information



1. Click on [Property].

The Property screen appears, and the registered user information is displayed.

2. Edit the user information.



Note

User ID cannot be edited.

3. Click on [OK].

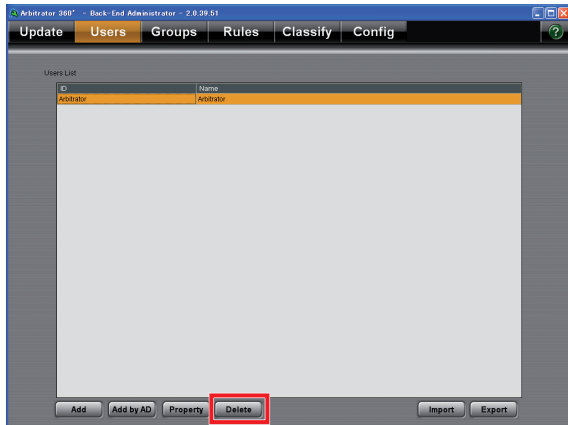
The Property screen is closed, and the user information is updated.

Note

For the following cases, an error message appears:

- The password and the retype password are different.
- The password character or character length is wrong.

Deleting the user



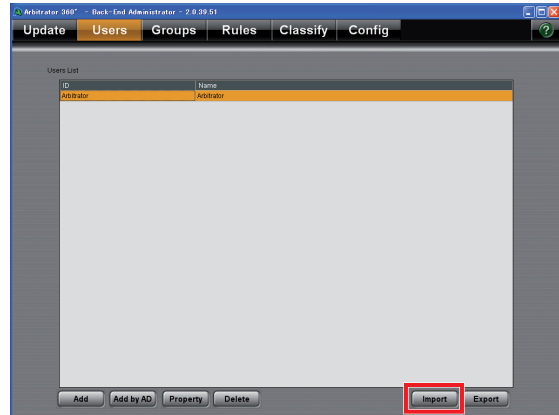
1. **Select a user to be deleted on the User List.**
2. **Click on [Delete].**
A confirmation dialog box is displayed.
3. **Click on [Yes].**
The confirmation dialog box is closed, and the user will be deleted.

Cancel deleting

Click on [No] in the confirmation dialog box.

Importing users

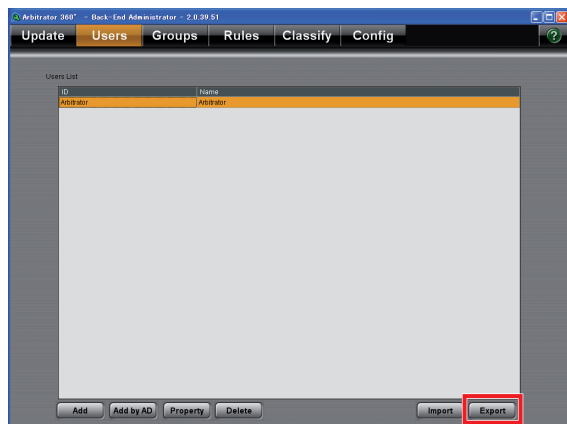
User information and group information are imported from external media and be registered in the database.



1. **Click on [Import].**
The file selection dialog box appears.
2. **Select a file to be registered.**
3. **Click on [Open].**
User information and group information will be registered in the database.

Exporting users

User information and group information registered in the database will be exported to external media, and stored as files.



1. Click on [Export].

A file storage dialog box is displayed.

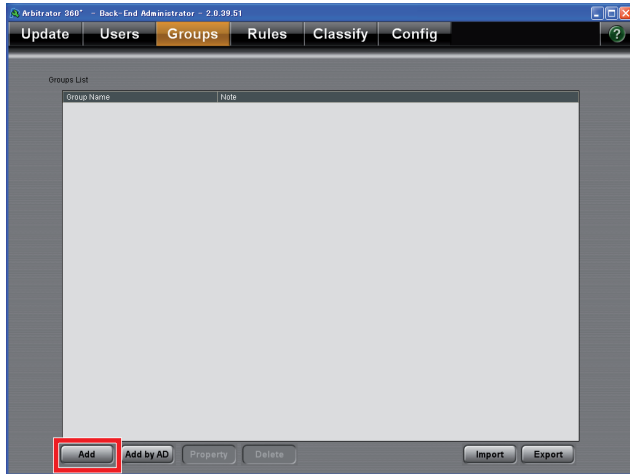
2. Enter the save file name.

3. Click on [Save].

User information file or group information file will be exported to the specified folder.

Registering Groups

When users are grouped, rights are given to multiple users at one time. If different rights are given to a group and the users who belong to the group, the rights which are given to both a group and users are applied. Click on [Groups]. The Groups screen is displayed.

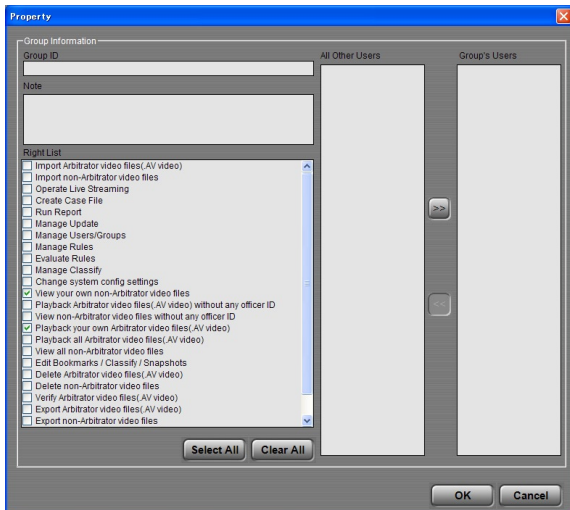


Adding groups

1. Click on [Add].

The Property screen is displayed.

2. Enter the group information.



3. Set the rights.

Check the rights to be given to the group on the Right List.

To select all rights on the Right List: Click on [Select All].

To release all rights on the Right List: Click on [Clear All].

4. Set the users.

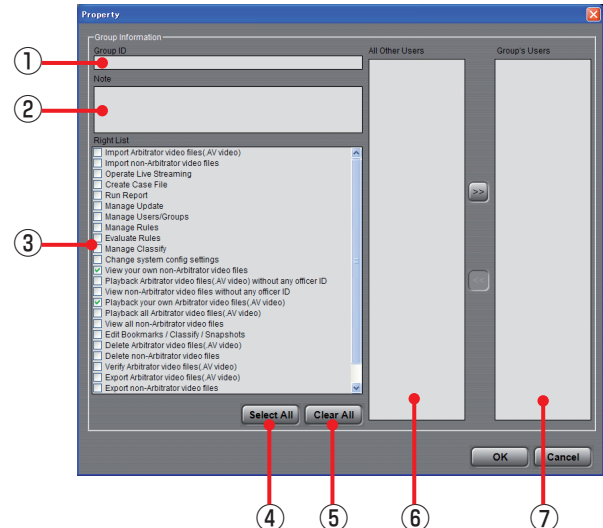
Select users to be grouped on the All Other Users list, and click on [>>].

Multiple users can be selected.

5. Click on [OK].

The Property screen is closed, and the group will be registered.

Description of the Property screen



① **Group ID:** Enter the group name.

② **Note:** Enter note of the group.

③ **Right List:** Check the rights to be given to the group. Right-clicking enables checking or unchecking all rights.
“View your own non-Arbitrator video files” and “Playback your own Arbitrator video files (.AV video)” are checked as default.

(See “Right list,” page 57.)

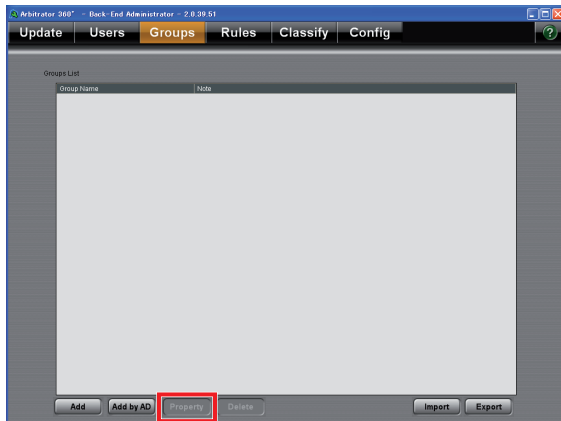
④ **Select All:** All rights are checked.

⑤ **Clear All:** All rights are unchecked.

⑥ **All Other Users:** A list of users registered in the Back-End Server is displayed in ascending order. Right-clicking enables the same function as clicking on [>>].

⑦ **Group's Users:** A list of users in the group is displayed in ascending order. Right-clicking enables the same function as clicking on [«].

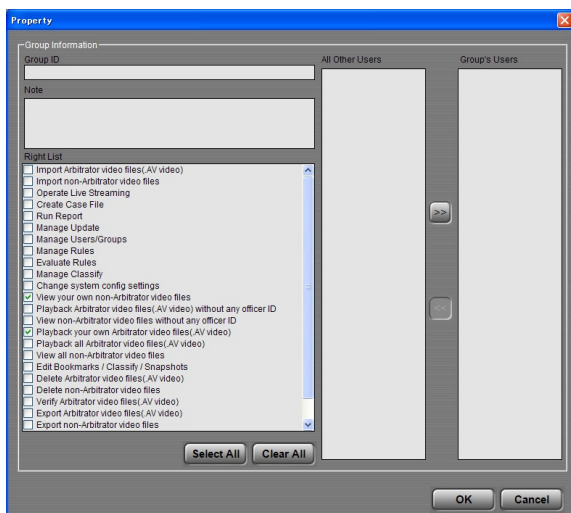
Displaying and editing the group information



1. Click on [Property].

The Property screen appears, and the group information is displayed.

2. Edit the group information.



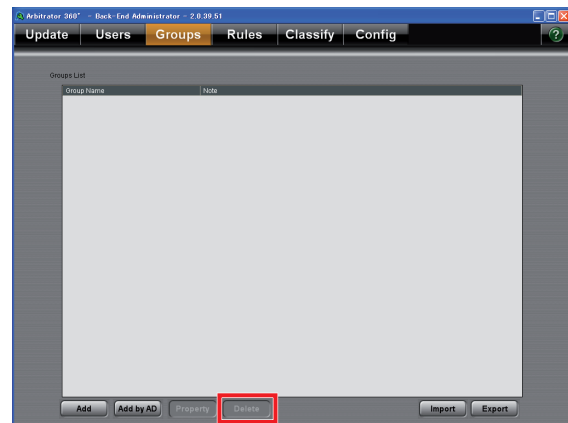
Note

Group ID cannot be edited.

3. Click on [OK].

The Property screen is closed, and the group information is updated.

Deleting a Group



1. Select a group to be deleted on the Groups List.

2. Click on [Delete].

A confirmation dialog box is displayed.

3. Click on [Yes].

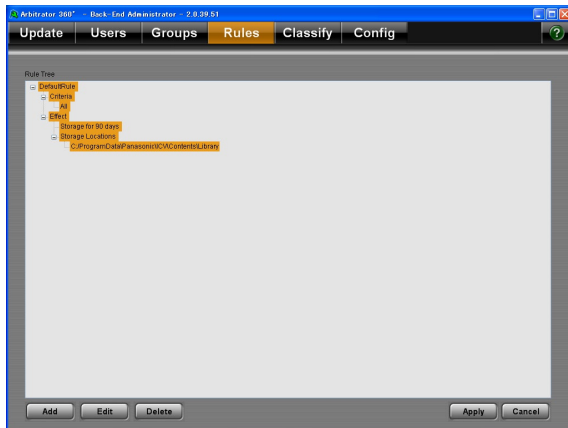
The confirmation dialog box is closed, and the group will be deleted.

Cancel deleting

Click on [No] in the confirmation dialog box.

Setting Evidence Rules

An evidence rule is a function to determine access permissions, retention period, and storage locations of files (called Effect) by predefined conditions (called Criteria) when the files are registered in the database. Click on [Rules]. The Rules screen is displayed.



Criteria

The meta-information of the file is used as Criteria. Classify, Officer 1, Officer 2, Field1, Field2, Field3, Field4, Field5 (Vehicle ID), and Bookmark Note are specified as Criteria.

Effect

Access permission, retention period, and the storage locations are specified as Effects. Access permission determines whether or not the group may access the file and its rights. The storage locations are selected from among the locations displayed on the screen. The retention period is determined by the evidence rules, separated files and case files. The longest period of the three conditions listed below will be the retention period.

- (1) When one file is applied to multiple rules but with different retention period set, the longest retention period will be applied to the file.
- (2) When a file is a part of the separated files, the longest period among the separated files will be applied. .
- (3) The longest period among the files associated with the case file is applied. (This function is enabled or disabled in System setup of the Back-End Administrator application.)

Access permission is determined by the evidence rules, user rights and group rights. If the rights have not been set with the evidence rules, the rights set with the User setting or Group setting are enabled. The Rights that are set to be denied in the Rule Effects section are disabled even if a user setting or group setting specifies enabling the rights.

Default rule

If no rule is applied to the files, the default rule will be applied. The default rule is created when the Back-End Server is installed. The Effects of the default rule are as shown below.

Access permission: No right

Retention period: 90 days

Storage location: First storage location registered on the Configuration Settings screen

The Default rule cannot be deleted. Only Store Days and Storage Location in Rule Effects can be edited.

Adding a rule



1. Click on [Add].
The edit rule screen appears.
2. Enter the rule name in the Rule Name field.

3. Make settings for Criteria.
Enter the text or select on the dropdown list.
4. Make setting for Rule Effects.
(See “Setting the Rule Effects” on the right.)
5. Click on [OK].
The rule is added on the Rules screen.
6. Click on [Apply].
The rule is registered in the database.

Note

- For the following cases, an error message appears:
- No rule name is entered.
 - The entered rule name has already been registered.
 - Permission(Users/Groups) is set, but Permission(Rights) is not set.
 - Retention period is not specified.
 - Storage location is not specified.

Setting the Rule Effects

1. Click on [Add].
The Evidence Rule User Add Form screen is displayed.

2. Select Users on the Users tab.
3. Click on [Groups] and select groups on the Groups tab.
4. Click on [>].
Selected users and groups are moved to the right.
5. Click on [OK].
The selected users and groups are added to the Permission(Users/Groups) list on the edit rule screen.
6. Check the Allow or Deny check box on the Permission(Rights) list.
7. Enter the retention period in the Store Days field.
8. Check the Storage Location.

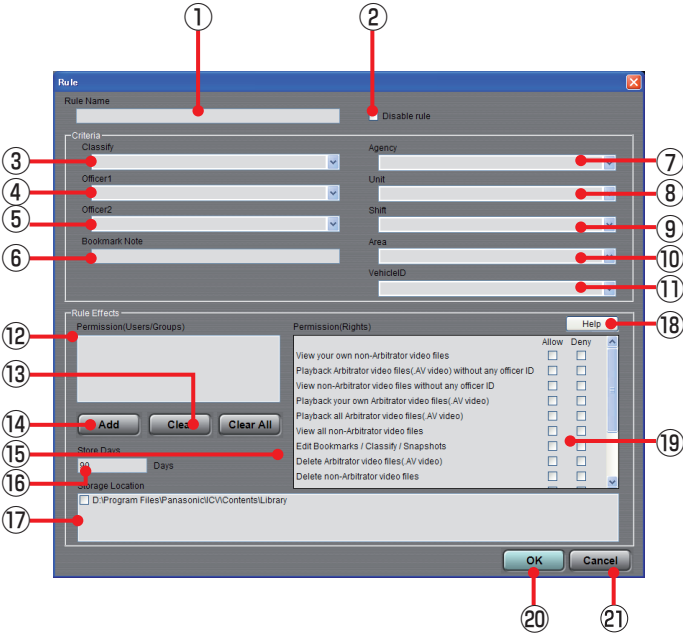
Canceling the selection

1. Select users or groups on the right list.
2. Click on [<].

Deleting users or groups

To delete selected users or groups on the Permission(Users/Groups) list, click on [Clear].
To delete all users or groups on the Permission(Users/Groups) list, click on [Clear All].

Description of edit rule screen



- ① **Rule Name:** Enter a rule name.
- ② **Disable rule:** If checked, the rule is disabled.

<Criteria>

Enter the information or select the information on the dropdown list.

- ③ **Classify**
- ④ **Officer1**
- ⑤ **Officer2**
- ⑥ **Bookmark Note**
- ⑦ **Agency**
- ⑧ **Unit**
- ⑨ **Shift**
- ⑩ **Area**
- ⑪ **VehicleID**

Note

Agency, Unit, Shift, Area, and VehicleID are the default setting for Field1 to Field5. The field name can be changed upon installation of the Back-End Server.

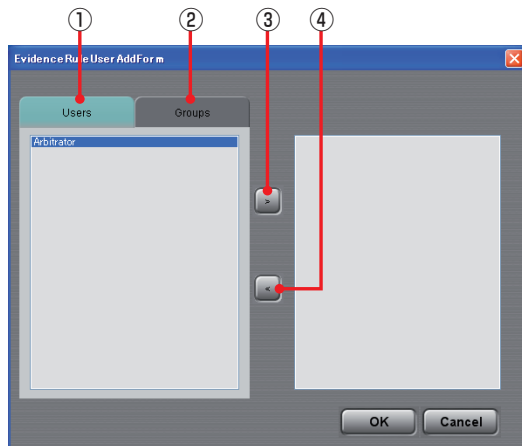
<Rule Effects>

- ⑫ **Permission(Users/Groups):** A list of users or groups registered in the database is displayed. The listed users or groups have access permissions. As default, no user or group is stored. Right-clicking enables selecting all rights and clearing all rights.
- ⑬ **Clear:** The users or groups selected on the Permission(Users/Groups) list are cleared.
- ⑭ **Add:** The Evidence Rule User AddForm screen is displayed.
- ⑮ **Clear All:** All groups or users on the Permission(Users/Groups) list are cleared.
- ⑯ **Store Days:** Enter the retention period of the video. The default setting is 90 days.
- ⑰ **Storage Location:** A list of storage locations is displayed. As default, no storage location is selected. Right-clicking enables selecting all storage locations and clearing all storage locations.
- ⑱ **Help:** A Help file for the Rule screen is displayed.
- ⑲ **Permission(Rights):** A list of the rights is displayed. The Rights whose Allow check boxes are checked are enabled. If the Deny check boxes are checked, the corresponding Right to a file is disabled even if users or groups have the Rights. Both Allow and Deny check boxes are not checked simultaneously.
- ⑳ **OK:** The rule is saved in the database.
- ㉑ **Cancel:** Editing rules is canceled.

Notes

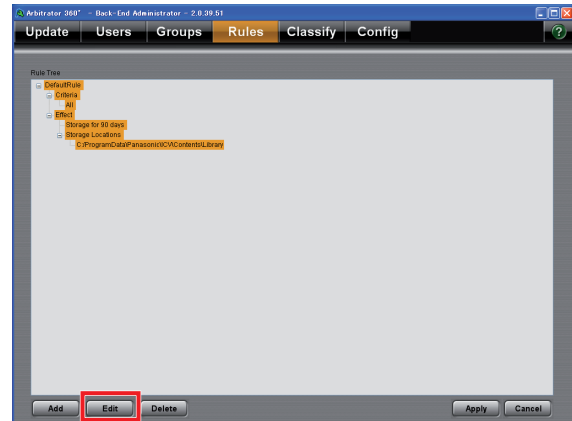
- If Allow for “Playback your own Arbitrator video files (.AV video)” on the Permission(Rights) list is checked, Allow for “View your own non-Arbitrator video files” is also checked automatically.
- If Allow for “Playback all Arbitrator video files (.AV video)” on the Permission(Rights) list is checked, Allow for “View all non-Arbitrator video files” is also checked automatically.

Description of Evidence Rule User AddForm screen

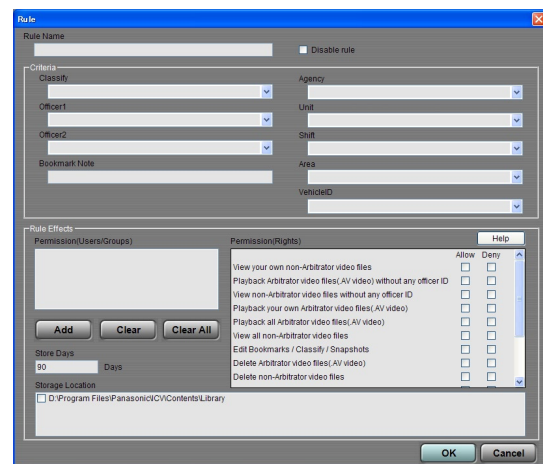


- ① **Users:** A list of users stored in the Back-End Server is displayed.
- ② **Groups:** A list of groups stored in the Back-End Server is displayed.
- ③ **[>]:** Users or groups selected on the Users tab or Groups tab are transferred to the right list, and selection is fixed.
- ④ **[<]:** Users or groups selected on the right list are transferred to the Users tab or Groups tab, and selection is canceled.

Editing a rule



1. **Click on [Edit].**
The edit rule screen appears.
2. **Edit the rules .**



Note

The Rule Name cannot be edited.

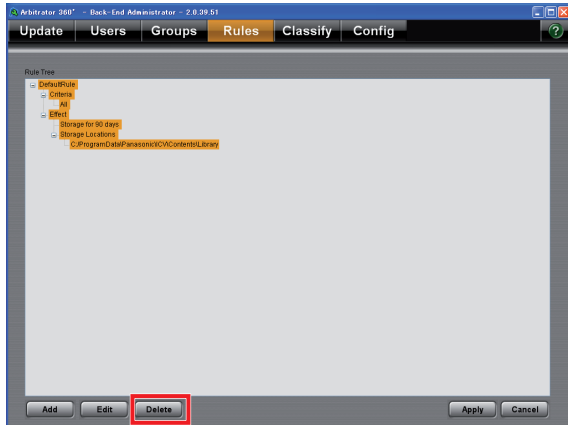
3. **Click on [OK].**
The Rules screen is updated.
4. **Click on [Apply].**
The updated rule is registered in the database.

Note

For the following cases, an error message appears:

- Permission(Users/Groups) is set, but Permission(Rights) is not set.
- Retention period is not specified.
- Storage location is not specified.

Deleting a rule



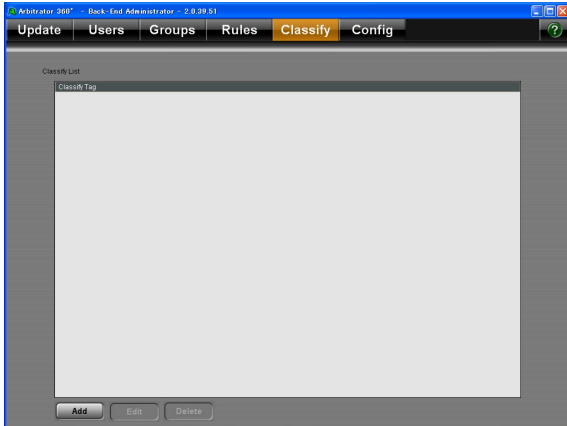
1. **Select a rule to be deleted on the Rules screen.**
2. **Click on [Delete].**
A confirmation dialog box is displayed.
3. **Click on [Yes].**
The confirmation dialog box is closed, and the rule will be deleted from the Rules screen.
4. **Click on [Apply].**
The rule is deleted from the database.

Cancel deleting

Click on [No] in the confirmation dialog box or [Cancel] on the Rules screen.

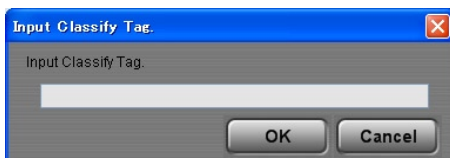
Setting Classify Information

Classify is the function to add classify tag and classify note to the video. Videos can be searched for using the classify information. On the Classify screen, the classify tag can be created, edited and deleted. Up to 50 classify tags can be defined. Even if the predefined classify tag is edited, the classify tag that has already been added to the video will not be changed. Click on [Classify], and the Classify screen is displayed.



Adding a classify tag

1. Click on [Add] on the Classify screen.
The Input Classify Tag screen is displayed.
2. Enter a classify tag.



3. Click on [OK].
The Classify Tag screen is closed, and the Classify List is updated.
A maximum of 99 alphanumeric characters and symbols excluding "<", ">", "¥", "&", and "," can be used in a classify tag.

Editing the classify information

1. Select the classify tag to be edited on the Classify List.
2. Click on [Edit].
The Input Classify Tag screen is displayed.
3. Edit the classify tag.
4. Click on [OK].
The Classify Tag screen is closed, and the Classify List is updated.

Deleting the classify information

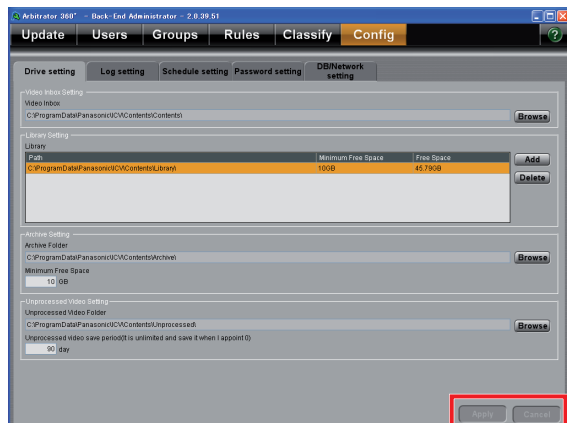
1. Select the classify tag to be deleted on the Classify List.
Multiple tags can be selected.
2. Click on [Delete].
A confirmation dialog box is displayed.
3. Click on [Yes].
The confirmation dialog box is closed, and the classify tag is deleted.

Cancel deleting

Click on [No] in the confirmation dialog box.

System Setup

When you click on the [Config] button on the Main screen, the system setup screen appears.



Apply button

All settings changed on each setting screen are registered in the database.

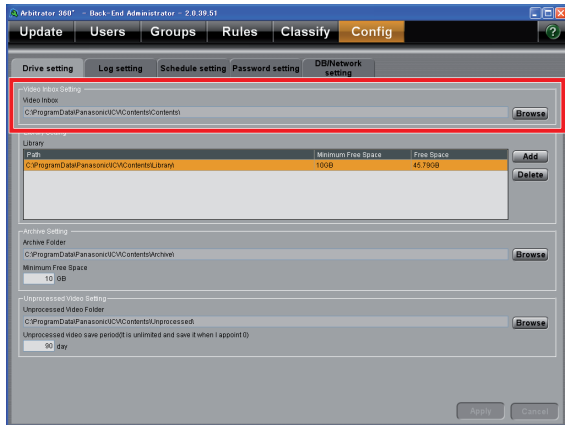
Cancel button

All settings changed on each screen are canceled.

Drive Setting

Set folders in which videos are to be registered. Click on the Drive setting tab. The Drive setting screen appears.

Setting the Video Inbox



Set the Video Inbox in which video files are temporarily stored until the files are registered in the database. The full folder path for Video Inbox is displayed in the Video Inbox field.

Changing the folder

1. Click on [Browse].

The Server Folder Setting dialog box appears.

2. Select the folder.

If the specified path requires the user name and password on the network drive, the user name/password input dialog box appears.

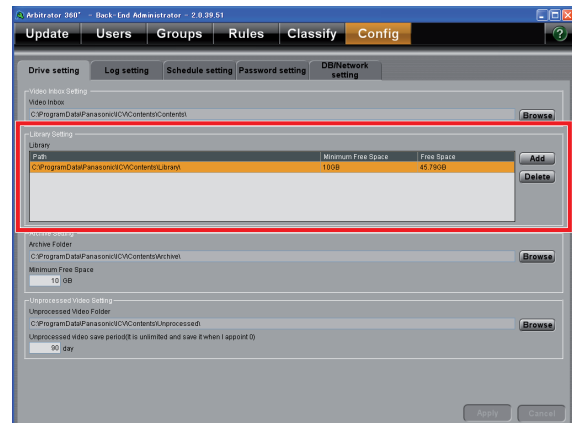


Enter the user name and password then click on [OK].

3. Click on [OK] to close the dialog box.

The full folder path for Video Inbox is displayed in the Video Inbox field.

Library setting

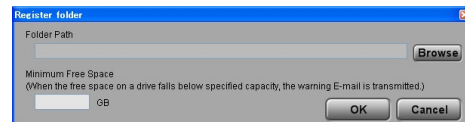


Set a folder in which video files are to be stored. Multiple folders can be set.

Adding a folder

1. Click on [Add].

The Register folder dialog box appears.



2. Click on [Browse].

The Server Folder Setting dialog box appears.

3. Select the folder.

If the specified path requires the user name and password on the network drive, the user name/password input dialog box appears.



Enter the user name and password then click on [OK].

4. Click on [OK].

The full folder path is displayed in the Folder Path field.

5. Enter the required free space in the Minimum Free Space field.

When the free space on the drive falls below this value, an alert e-mail message is sent to the users who belong to the group specified in "Alert setting." (See "Schedule setting screen," page 22.)

6. Click on [OK].

The Register folder dialog box is closed, and the Library is updated.

Deleting a folder

1. Select a folder to be deleted in the Library list.

Multiple folders can be selected.

2. Click on [Delete].

The confirmation dialog box is displayed.

3. Click on [Yes].

The confirmation dialog box is closed, and the selected folder is deleted.

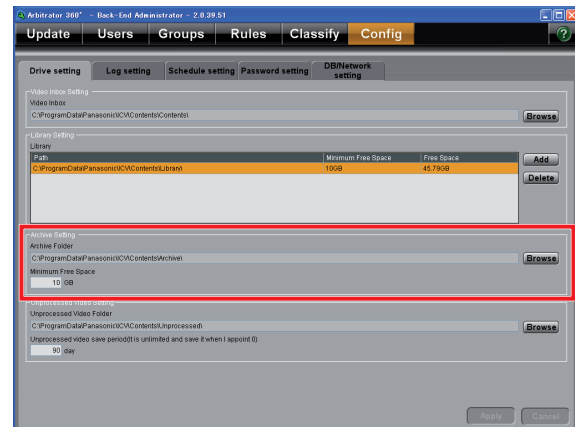
Note

The folder used by Evidence rule cannot be deleted.

Cancel deleting

Click on [No] in the confirmation dialog box or [Cancel] on the Drive setting screen.

Archive setting



Assign a folder to which archive videos are to be stored. Only one folder can be set.

Changing the folder

1. Click on [Browse].

The Server Folder Setting dialog box appears.

2. Select the folder.

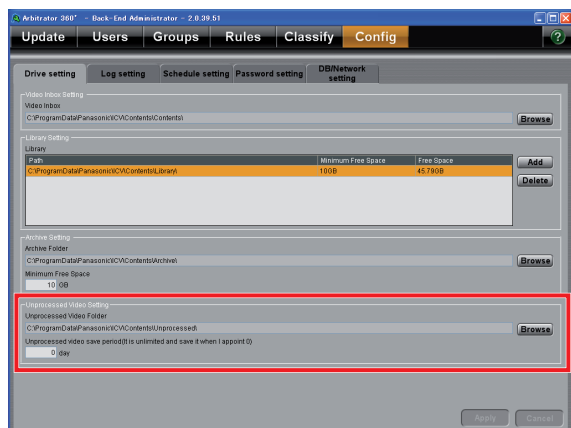
3. Click on [OK].

The full folder path for Archive Folder is displayed.

Setting the minimum free space

Enter the minimum free space in the Minimum Free Space field. When the free space on the drive falls below this value, an alert e-mail message is sent to the users who belong to the group specified in "Alert setting." (See "Schedule setting screen," page 22.)

Unprocessed video setting



When the video is verified and unprocessed, it will be saved to the Unprocessed Video Folder, then e-mail is automatically sent to the users who belong to the group specified in “Alert Setting.” (See “Schedule setting screen,” page 22.) Consult your supplier.

Specifying the folder

1. Click on [Browse].

The Server Folder Setting dialog box appears.

2. Select the folder.

3. Click on [OK].

The full folder path for the Unprocessed Video Folder is displayed.

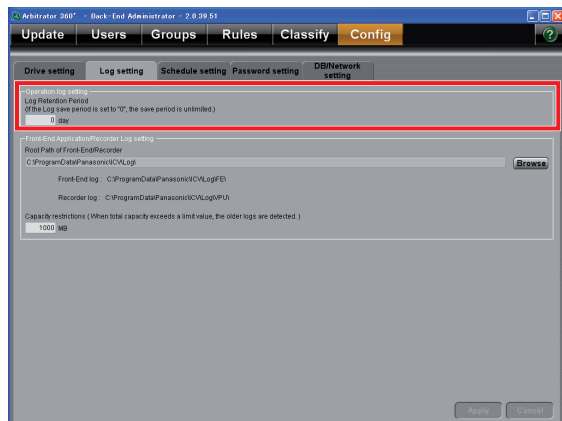
Setting the retention period

The retention period of the unprocessed video file is fixed to unlimited.

Log Setting

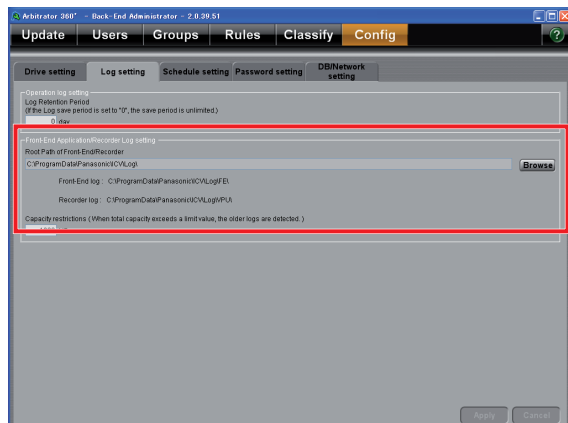
Setting for log output is made.
Click on the Log setting tab. The log setting screen appears.

Operation log setting



The retention period of the User Operation Log is set.
Enter the days of retention period in A log save period field.

Front-End Application/Recorder Log setting



The location and capacity restriction for storing the user operation log of the Front-End application and Memory Card Video Recorder are set.

Setting the folder for storing the log

1. Click on [Browse].

The Server Folder Setting dialog box appears.

2. Select a folder.

3. Click on [OK].

The full folder path is displayed in the Root Path of Front-End/Recorder field.

Setting the capacity for a log file

Enter the maximum capacity for a log file in the Capacity restrictions field. When the capacity exceeds the value set here, the error log is deleted from the oldest one.

Schedule Setting

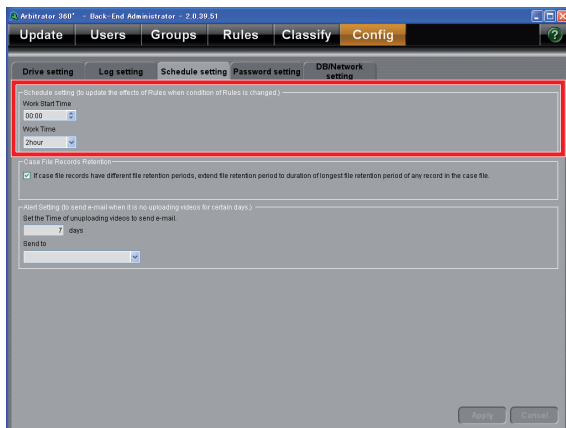
Setting for scheduling of batch processing executed at the specified time is made.

Click on the Schedule setting tab. The Schedule setting screen appears.

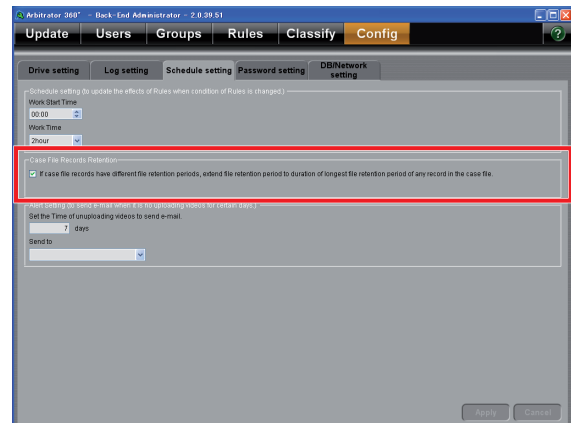
At the specified time, the processing shown below will be executed.

- Deleting the videos exceeding the retention period
- Reapplying the changes of Storage Location setting in the Evidence Rule
- Checking the Memory Card Video Recorder which does not upload videos

Setting the time for processing



Setting the Case File Records Retention



When checked, the longest retention period of the files associated to the same case file is applied.

Setting the Work Start Time to process

Enter the start time of the batch processing in the Work Start Time field.

Default: 00:00

Setting the Work Time to process

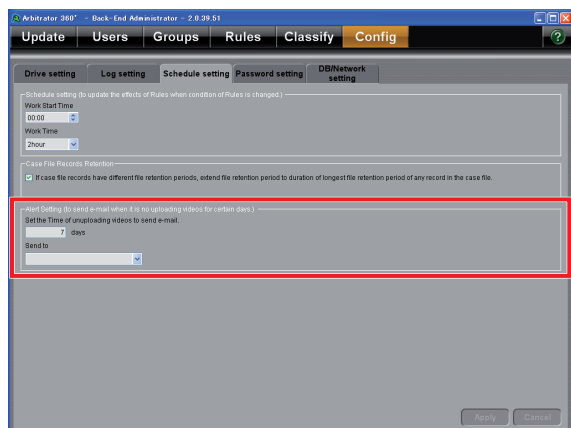
Select the work time from the dropdown list.

Setting value: 1hour, 2hour, 3hour, 5hour,
Until End

Default: 2hour

If the processing is not completed in Work Time, it will continue next day.

Alert Setting



If videos are not uploaded exceeding the specified days, the alert e-mail is sent to the specified group.

Setting the period

Enter the days in the days field.

Default: 7days

Setting the destination of the e-mail

Specify the group to which the alert e-mail is sent to in the Send to field. Select a group registered in the database from the dropdown list.

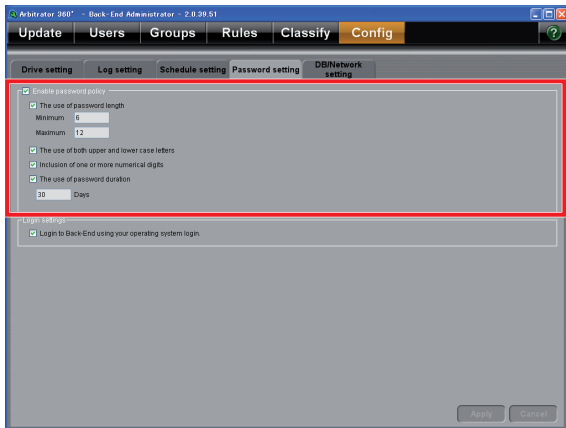
Notes

- To use this function, Mailer must be installed in advance.
- Receiving the alert e-mail depends on the network environment. Consult your network administrator.
- The alert e-mail is sent for each Memory Card Video Recorder. If the alert e-mail is not required for a recorder, delete the recorder by selecting it then clicking on the [Delete] button on the Recorder Update screen. (See “Deleting the recorder,” page 32.)

Setting the Password

Set the password policy.
Click on the Password setting tab. The Password setting screen appears.

Setting the password policy



Set the password policy used for the user password.

Selecting the use of the password policy

Check the Enable password policy check box, and the all password policy will be used.
If not checked, all password policy will not be used.

Setting of the password length

If the "The use of password length" check box is checked, settings shown below will be enabled.
If not checked, the setting is disabled.

Minimum: Enter the minimum length of password in the Minimum field.

Maximum: Enter the maximum length of password in the Maximum field.

Setting of case sensitivity

When the "The use of both upper and lower case letters" check box is checked, both upper and lower case letters should be included in the password.
If not checked, the password including either upper-case or lower-case only is enabled.

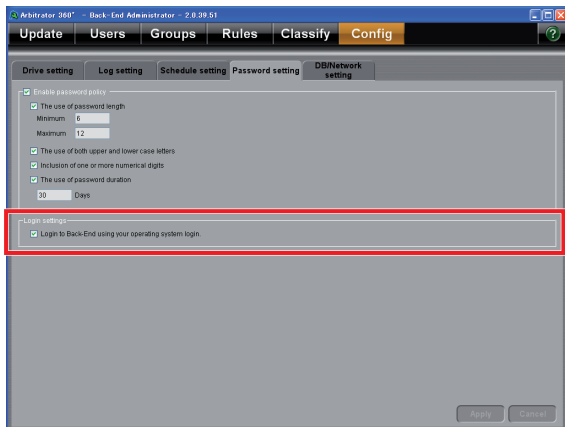
Setting the use of numerical digits

Set if the password includes numerical digits or not.
If the "Inclusion of one or more numerical digits" check box is checked, the password should include one or more numerical digits.
If not checked, this restriction will not be applied.

Setting the password duration

Enter the password duration in days field.
If the "The use of password duration" check box is checked, the password must be changed every this duration.
If not checked, this restriction will not be applied.

Setting of password default

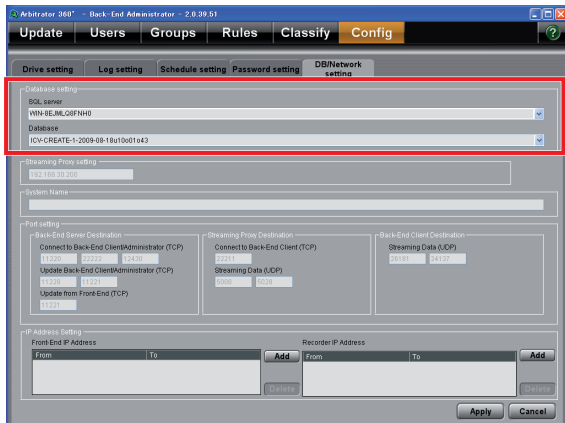


When the “Login to Back-End using your operating system login.” check box is checked, the login screen appears with user name and password entered if the user logged in is registered to the Back-End application.

Setting the Database and Network

The database and network settings can be made. Click on the DB/Network setting tab. The DB/Network setting screen appears.

Setting the database



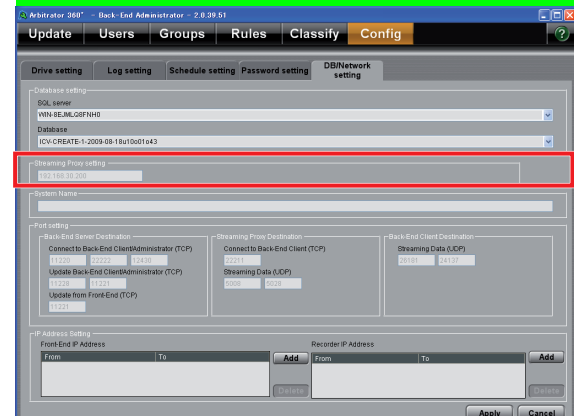
Setting the SQL server

Setting for the database server to be connected will be made. The database servers detected automatically will be displayed on the dropdown list. Select the server on the list.

Setting the database

The database managed by the database server will be displayed on the dropdown list. Select the database on the list.

Confirming the streaming proxy settings



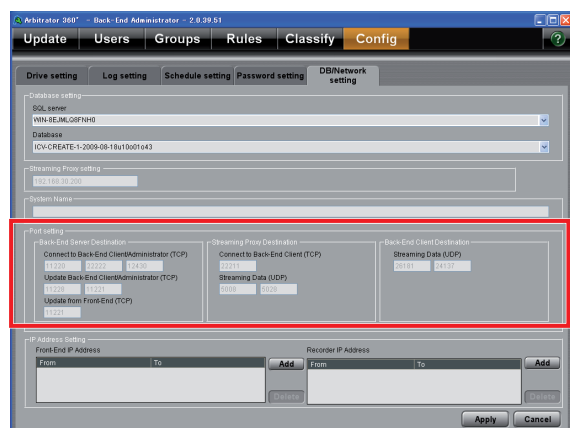
Streaming is not available at present. Upgrading is scheduled for the future.

Setting the System Name



Set the System Name here. Direct communication with the Back-End Server and the Memory Card Video Recorder is enabled using the name set here.

Confirming the port settings



Port settings for the items below will be displayed.

Back-End Server Destination

The port numbers for communication between the Back-End Administrator application and Back-End Server to process the request such as Login, Video search, etc. are displayed in Connect to Back-End Client/Administrator (TCP). The port numbers to update the Back-End Administrator module from the Back-End Server are displayed in Update Back-End Client/Administrator (TCP). The port number to update the module for an administrator from the Back-End Server is displayed in Update from Front-End (TCP).

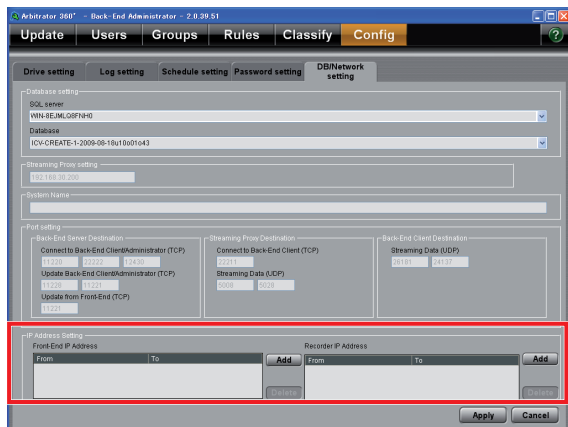
Streaming Proxy Destination

The port number of the streaming proxy server to stream videos on the Back-End Client application is displayed in Connect to Back-End Client (TCP), and the port numbers of the streaming proxy server to transfer videos from the Front-End application or the Memory Card Video Recorder are displayed in Streaming Data (UDP).

Back-End Client Destination

Streaming is not available at present. Upgrading is scheduled for the future.

Setting the IP address



The IP address for communicating with the Memory Card Video Recorder or Front-End application is displayed. IP address is set by its range, and be added and be deleted.

The IP address of the Front-End application or Memory Card Video Recorder set here will be the target for remotely updating, uploading videos, or **streaming** videos. The Back-End Server tries to connect to the Front-End application or Memory Card Video Recorder whose IP address is set on this screen.

Confirming the Front-End IP address

The IP address of the Front-End application for communicating with the Back-End Server is displayed on the Front-End IP Address list.

Confirming the Recorder IP address

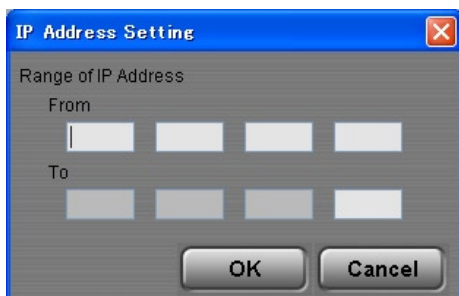
The IP address of the Memory Card Video Recorder for direct communicating with the Back-End Server is displayed on the Recorder IP Address list.

Adding an IP address

1. Click on [Add].

The IP Address Setting screen is displayed.

2. Enter the IP address.



3. Click on [OK].

The entered IP address is added to the address list on the DB/Network setting screen.

4. Click on [Apply].

The address will be registered to the database.

Notes

- The top three octets of IP address for “To” cannot be entered.
- For the following cases, an error message appears:
 - The address is not entered.
 - The address is invalid.

Deleting IP address

1. Select the address to be deleted on the address list.

Multiple addresses can be selected.

2. Click on [Delete].

A confirmation dialog box is displayed.

3. Click on [Yes].

The selected address is deleted, and the DB/Network setting screen is updated.

4. Click on [Apply].

The updated address will be registered to the database.

Cancel deleting

Click on [No] in the confirmation dialog box or [Cancel] on the DB/Network setting screen.

Streaming is not available at present. Upgrading is scheduled for the future.

Setup

Admin Password

Perform video and audio settings.

Item	Factory-Preset	Description
Admin Password		For inputting an administrator password.
Password	admin	
Retype Password		

Allocation (Video/Audio)

Perform video and audio settings.

Item	Factory-Preset	Description
Resolution/RecordRate		The resolution and bit rate of the video can be set.
Main	D1 HI	The resolution and bit rate of the main video can be set. Setting values: D1 HI, D1 STD, D1 10 ^{*1} , CIF
Sub	D1 HI	The resolution and bit rate of the sub video can be set. Setting values: D1 HI, D1 STD, D1 10 ^{*1} , CIF
Connection Camera		Camera connection can be set.
Camera1	ON	The connection to the [CAMERA 1] connector can be set. Setting values: ON, OFF
Camera2	ON	The connection to the [CAMERA 2] connector can be set. Setting values: ON, OFF
Camera3	OFF	The connection to the [CAMERA 3] connector can be set. Setting values: ON, OFF
Camera4	OFF	The connection to the [CAMERA 4] connector can be set. Setting values: ON, OFF
Camera5	OFF	The connection to the [CAMERA 5] connector can be set. Setting values: ON, OFF
Camera6	OFF	The connection to the [CAMERA 6] connector can be set. Setting values: ON, OFF

(to be continued to the next page)

*1 If either the Main or Sub Resolution/RecordRate is set to "D1 10", the other is also set to "D1 10".

Setup (continued)

Item	Factory-Preset	Description																														
Preset1*1		Preset 1 can be set.																														
Form	1 Channel	The channel mode can be set. Setting values: 1Channel, 2Channels, 4Channels QUAD, 4Channels PANORAMA, 5Channels QUAD, 5Channels PANORAMA, None																														
Pattern	Main 1, Sub-	The combination of cameras displayed as Main and Sub videos can be set. Setting values for Form and Pattern: <table><tr><th>Form</th><th>Pattern</th></tr><tr><td rowspan="3">1Channel</td><td>Main 1, Sub -</td></tr><tr><td>Main 2, Sub -</td></tr><tr><td>Main 3, Sub -</td></tr><tr><td rowspan="3">2Channels</td><td>Main 1, Sub 2</td></tr><tr><td>Main 1, Sub 3</td></tr><tr><td>Main 2, Sub 3</td></tr><tr><td rowspan="3">4Channels QUAD</td><td>Main -, Sub 1456</td></tr><tr><td>Main -, Sub 2456</td></tr><tr><td>Main -, Sub 3456</td></tr><tr><td rowspan="3">4Channels PANORAMA</td><td>Main -, Sub 1456</td></tr><tr><td>Main -, Sub 2456</td></tr><tr><td>Main -, Sub 3456</td></tr><tr><td rowspan="4">5Channels QUAD</td><td>Main 1, Sub 2456</td></tr><tr><td>Main 1, Sub 3456</td></tr><tr><td>Main 2, Sub 3456</td></tr><tr><td>Main 3, Sub 2456*2</td></tr><tr><td rowspan="4">5Channels PANORAMA</td><td>Main 1, Sub 2456</td></tr><tr><td>Main 1, Sub 3456</td></tr><tr><td>Main 2, Sub 3456</td></tr><tr><td>Main 3, Sub 2456*2</td></tr><tr><td>None*3</td><td></td></tr></table>	Form	Pattern	1Channel	Main 1, Sub -	Main 2, Sub -	Main 3, Sub -	2Channels	Main 1, Sub 2	Main 1, Sub 3	Main 2, Sub 3	4Channels QUAD	Main -, Sub 1456	Main -, Sub 2456	Main -, Sub 3456	4Channels PANORAMA	Main -, Sub 1456	Main -, Sub 2456	Main -, Sub 3456	5Channels QUAD	Main 1, Sub 2456	Main 1, Sub 3456	Main 2, Sub 3456	Main 3, Sub 2456*2	5Channels PANORAMA	Main 1, Sub 2456	Main 1, Sub 3456	Main 2, Sub 3456	Main 3, Sub 2456*2	None*3	
Form	Pattern																															
1Channel	Main 1, Sub -																															
	Main 2, Sub -																															
	Main 3, Sub -																															
2Channels	Main 1, Sub 2																															
	Main 1, Sub 3																															
	Main 2, Sub 3																															
4Channels QUAD	Main -, Sub 1456																															
	Main -, Sub 2456																															
	Main -, Sub 3456																															
4Channels PANORAMA	Main -, Sub 1456																															
	Main -, Sub 2456																															
	Main -, Sub 3456																															
5Channels QUAD	Main 1, Sub 2456																															
	Main 1, Sub 3456																															
	Main 2, Sub 3456																															
	Main 3, Sub 2456*2																															
5Channels PANORAMA	Main 1, Sub 2456																															
	Main 1, Sub 3456																															
	Main 2, Sub 3456																															
	Main 3, Sub 2456*2																															
None*3																																

(to be continued to the next page)

*1 Selectable Form and Pattern of Preset1, Preset2, and Preset3 depend on the settings of Connection Camera.

*2 This setting is enabled when the camera connected to the [CAMERA 1] connector is set to OFF.

*3 "None" is not selectable for Preset1 unless all camera connections are set to OFF.

Setup (continued)

Item	Factory-Preset	Description																														
Preset2* ¹		Preset 2 can be set.																														
Form	1 Channel	The channel mode can be set. Setting values: 1Channel, 2Channels, 4Channels QUAD, 4Channels PANORAMA, 5Channels QUAD, 5Channels PANORAMA, None																														
Pattern	Main 2, Sub-	The combination of cameras displayed as Main and Sub videos can be set. Setting values for Form and Pattern: <table><tr><th>Form</th><th>Pattern</th></tr><tr><td rowspan="3">1Channel</td><td>Main 1, Sub -</td></tr><tr><td>Main 2, Sub -</td></tr><tr><td>Main 3, Sub -</td></tr><tr><td rowspan="3">2Channels</td><td>Main 1, Sub 2</td></tr><tr><td>Main 1, Sub 3</td></tr><tr><td>Main 2, Sub 3</td></tr><tr><td rowspan="3">4Channels QUAD</td><td>Main -, Sub 1456</td></tr><tr><td>Main -, Sub 2456</td></tr><tr><td>Main -, Sub 3456</td></tr><tr><td rowspan="3">4Channels PANORAMA</td><td>Main -, Sub 1456</td></tr><tr><td>Main -, Sub 2456</td></tr><tr><td>Main -, Sub 3456</td></tr><tr><td rowspan="4">5Channels QUAD</td><td>Main 1, Sub 2456</td></tr><tr><td>Main 1, Sub 3456</td></tr><tr><td>Main 2, Sub 3456</td></tr><tr><td>Main 3, Sub 2456*²</td></tr><tr><td rowspan="4">5Channels PANORAMA</td><td>Main 1, Sub 2456</td></tr><tr><td>Main 1, Sub 3456</td></tr><tr><td>Main 2, Sub 3456</td></tr><tr><td>Main 3, Sub 2456*²</td></tr><tr><td>None*³</td><td></td></tr></table>	Form	Pattern	1Channel	Main 1, Sub -	Main 2, Sub -	Main 3, Sub -	2Channels	Main 1, Sub 2	Main 1, Sub 3	Main 2, Sub 3	4Channels QUAD	Main -, Sub 1456	Main -, Sub 2456	Main -, Sub 3456	4Channels PANORAMA	Main -, Sub 1456	Main -, Sub 2456	Main -, Sub 3456	5Channels QUAD	Main 1, Sub 2456	Main 1, Sub 3456	Main 2, Sub 3456	Main 3, Sub 2456* ²	5Channels PANORAMA	Main 1, Sub 2456	Main 1, Sub 3456	Main 2, Sub 3456	Main 3, Sub 2456* ²	None* ³	
Form	Pattern																															
1Channel	Main 1, Sub -																															
	Main 2, Sub -																															
	Main 3, Sub -																															
2Channels	Main 1, Sub 2																															
	Main 1, Sub 3																															
	Main 2, Sub 3																															
4Channels QUAD	Main -, Sub 1456																															
	Main -, Sub 2456																															
	Main -, Sub 3456																															
4Channels PANORAMA	Main -, Sub 1456																															
	Main -, Sub 2456																															
	Main -, Sub 3456																															
5Channels QUAD	Main 1, Sub 2456																															
	Main 1, Sub 3456																															
	Main 2, Sub 3456																															
	Main 3, Sub 2456* ²																															
5Channels PANORAMA	Main 1, Sub 2456																															
	Main 1, Sub 3456																															
	Main 2, Sub 3456																															
	Main 3, Sub 2456* ²																															
None* ³																																

(to be continued to the next page)

*1 Selectable Form and Pattern of Preset1, Preset2, and Preset3 depend on the settings of Connection Camera.

*2 This setting is enabled when the camera connected to the [CAMERA 1] connector is set to OFF.

*3 "None" is not selectable for Preset1 unless all camera connections are set to OFF.

Setup (continued)

Item	Factory-Preset	Description																														
Preset3*1		Preset 3 can be set.																														
Form	2 Channels	The channel mode can be set. Setting values: 1Channel, 2Channels, 4Channels QUAD, 4Channels PANORAMA, 5Channels QUAD, 5Channels PANORAMA, None																														
Pattern	Main 1, Sub 2	The combination of cameras displayed as Main and Sub videos can be set. Setting values for Form and Pattern: <table><tr><th>Form</th><th>Pattern</th></tr><tr><td rowspan="3">1Channel</td><td>Main 1, Sub -</td></tr><tr><td>Main 2, Sub -</td></tr><tr><td>Main 3, Sub -</td></tr><tr><td rowspan="3">2Channels</td><td>Main 1, Sub 2</td></tr><tr><td>Main 1, Sub 3</td></tr><tr><td>Main 2, Sub 3</td></tr><tr><td rowspan="3">4Channels QUAD</td><td>Main -, Sub 1456</td></tr><tr><td>Main -, Sub 2456</td></tr><tr><td>Main -, Sub 3456</td></tr><tr><td rowspan="3">4Channels PANORAMA</td><td>Main -, Sub 1456</td></tr><tr><td>Main -, Sub 2456</td></tr><tr><td>Main -, Sub 3456</td></tr><tr><td rowspan="4">5Channels QUAD</td><td>Main 1, Sub 2456</td></tr><tr><td>Main 1, Sub 3456</td></tr><tr><td>Main 2, Sub 3456</td></tr><tr><td>Main 3, Sub 2456*2</td></tr><tr><td rowspan="4">5Channels PANORAMA</td><td>Main 1, Sub 2456</td></tr><tr><td>Main 1, Sub 3456</td></tr><tr><td>Main 2, Sub 3456</td></tr><tr><td>Main 3, Sub 2456*2</td></tr><tr><td>None*3</td><td></td></tr></table>	Form	Pattern	1Channel	Main 1, Sub -	Main 2, Sub -	Main 3, Sub -	2Channels	Main 1, Sub 2	Main 1, Sub 3	Main 2, Sub 3	4Channels QUAD	Main -, Sub 1456	Main -, Sub 2456	Main -, Sub 3456	4Channels PANORAMA	Main -, Sub 1456	Main -, Sub 2456	Main -, Sub 3456	5Channels QUAD	Main 1, Sub 2456	Main 1, Sub 3456	Main 2, Sub 3456	Main 3, Sub 2456*2	5Channels PANORAMA	Main 1, Sub 2456	Main 1, Sub 3456	Main 2, Sub 3456	Main 3, Sub 2456*2	None*3	
Form	Pattern																															
1Channel	Main 1, Sub -																															
	Main 2, Sub -																															
	Main 3, Sub -																															
2Channels	Main 1, Sub 2																															
	Main 1, Sub 3																															
	Main 2, Sub 3																															
4Channels QUAD	Main -, Sub 1456																															
	Main -, Sub 2456																															
	Main -, Sub 3456																															
4Channels PANORAMA	Main -, Sub 1456																															
	Main -, Sub 2456																															
	Main -, Sub 3456																															
5Channels QUAD	Main 1, Sub 2456																															
	Main 1, Sub 3456																															
	Main 2, Sub 3456																															
	Main 3, Sub 2456*2																															
5Channels PANORAMA	Main 1, Sub 2456																															
	Main 1, Sub 3456																															
	Main 2, Sub 3456																															
	Main 3, Sub 2456*2																															
None*3																																
Audio In Select		The audio inputs can be selected.																														
Audio1	Wireless Mic	The audio signal connected to the [AUDIO IN 1] connector can be selected. Setting value: Mic (microphone) Wireless Mic (wireless microphone) Off (no connection)																														
Audio2	Mic	The audio signal connected to the [AUDIO IN 2] connector can be selected. Setting value: Mic (microphone) Wireless Mic (wireless microphone) Off (no connection)																														
Audio3	OFF	The audio signal connected to the [AUDIO IN 3] connector can be selected. Setting value: Mic (microphone) Wireless Mic (wireless microphone) Off (no connection)																														
Audio4	OFF	The audio signal connected to the [AUDIO IN 4] connector can be selected. Setting value: Mic (microphone) Wireless Mic (wireless microphone) Off (no connection)																														
Init Audio Rec after power ON	ON	Initial audio output setting (upon power-on) Setting values: ON, OFF, LAST*4																														

*1 Selectable Form and Pattern of Preset1, Preset2, and Preset3 depend on the settings of Connection Camera.

*2 This setting is enabled when the camera connected to the [CAMERA 1] connector is set to OFF.

*3 "None" is not selectable for Preset1 unless all camera connections are set to OFF.

*4 The setting upon the last power-off will be restored when the camera is turned on. If the Memory Card Video Recorder is not turned off properly, the setting data upon power-off may not be stored properly.

Setup (continued)

Camera 1

Camera 1 settings can be performed.

Item	Factory-Preset	Description
Camera 1		Settings for the color camera connected to the [CAMERA 1] connector on the Memory Card Video Recorder
IR Level	LOW	Level setting for automatic IR switching*1 Setting values: LOW, HIGH
IR Time [s]	30	Level detection time for automatic IR switching*1 (seconds) Setting values: 10, 30, 60, 300
Auto Zoom Magnification	10	Maximum magnification setting for automatic zooming Setting values: 1, 2, 3, 4, 5, 7, 10, 15, 22
Auto Zoom Time [s]	3	Keeping time of the maximum zoom magnification during automatic zooming (seconds) Setting values: 3, 5, 8
Auto Zoom End Position	1	Automatic zooming end position setting Setting values: 1, 2, 3, 4, 5, 7, 10, 15, 22, LAST
Zoom Limit	220	Maximum magnification during zoom Setting values: 22, 220
AGC Level	HIGH	Automatic gain control setting for the color camera Setting values: LOW, MID, HIGH, OFF
Flip	OFF	Vertical flipping of the output image from the color camera Setting values: ON (vertically flipped) OFF (No flipping)
Auto Focus	PRESET	The focusing method of the color camera in the following conditions can be set: <ul style="list-style-type: none">• When "Init LPR Mode" is set to "DISABLE"• When "Init LPR Mode" is set to "ENABLE" and "LPR Mode" is set to "PATROL"• When recording is started by a recording trigger signal with "Init LPR Mode" set to "ENABLE" and "LPR Mode" set to "LPR" Setting values: PRESET (When the zoom magnification is set to ×3 or less, the camera focuses on an object at about 15 m distance from the camera. If zooming operation is performed afterward, automatic focusing will be activated.) DISABLE (The focal position is fixed at a distance of about 40 m, and automatic focus is disabled.) AUTO (Auto focusing when zooming magnification changes)

(to be continued to the next page)

*1 The [IR Level] and [IR Time] settings are enabled only when [Init IR Mode] is set to "AUTO."

Setup (continued)

Item	Factory-Preset	Description
Init Camera1 Settings after power ON		The initial settings upon startup of the color camera connected to the [CAMERA 1] connector on the Memory Card Video Recorder can be set.
Init Backlight	OFF	Initial setting of backlight compensation Setting values: ON, OFF, LAST* ¹ (The backlight compensation is enabled when set to ON.)
Init IR Mode	AUTO	Infrared imaging function switching Setting values: ON (The IR function is forcibly set to ON) OFF (The IR function is forcibly set to OFF.) AUTO (The IR function is automatically turned ON or OFF.) LAST* ¹
Init Camera 1 LED	ON	Initial setting of the [REC] lamp of the color camera Setting values: ON (The lamp is lit during recording.) OFF (The lamp does not light.) LAST* ¹
Init AE Shift	0	Initial setting of the brightness for the color camera* ² Setting values: 2, 1, 0, -1, -2, LAST* ¹
Init LPR Mode	DISABLE	License Plate Recognition function switching Setting values: ENABLE (LPR function enabled) DISABLE (LPR function disabled. [LPR Mode] is switched to "PATROL".)

*1 The setting upon the last power-off will be restored when the camera is turned on. If the Memory Card Video Recorder is not turned off properly, the setting data upon power-off may not be stored properly.

*2 When [Init AE Shift] is set to "+2" and the subject is dark, the number of frames to be updated per second may become less than 30.

Setup (continued)

Date/Time

The date and time can be set.

Item	Factory-Preset	Description
Date/Time		Date, time, and time zone settings
Time Zone	Eastern Daylight Saving Time	Time zone Hawaii Standard Time Yukon Standard Time Yukon Daylight Saving Time Pacific Standard Time Pacific Daylight Saving Time Mountain Standard Time Mountain Daylight Saving Time Central Standard Time Central Daylight Saving Time Eastern Standard Time Eastern Daylight Saving Time Atlantic Standard Time Atlantic Daylight Saving Time Asia Tokyo
Date/Time Style	USA	Date/Time display style setting Setting values: ISO (YYYY-MM-DD HH : MM : SS) USA (MM/DD/YYYY HH : MM : SS)
Date/Night View		Day/Night mode setting
Day/Night View Auto Switch	Checked	Select if Day and Night views are automatically switched or not.
Switch to Day View at	7:00:00 AM	Time setting for switching to Day mode Setting range: 00:00:00 AM – 11:59:59PM
Switch to Night View at	6:00:00 PM	Time setting for switching to Night mode Setting range: 00:00:00 AM – 11:59:59PM

Setup (continued)

File Transfer

File transfer settings can be performed.

Item	Factory-Preset	Description
Upload		Upload settings
Auto Upload is Enabled	Unchecked	Select whether automatic uploading is enabled or not.
Server IP Address for Manual Upload	-	IP address of the Back-End Server for manual uploading
Export/DVD Burn	Confirmation	Select how to delete video files from the Memory Card Video Recorder after data exporting or DVD burning. Force: Automatically deleted Confirmation: A confirmation message is displayed.
Certification		
System Name	-	System name of the Memory Card Video Recorder.

Exporting from the Front-End application is not available at present. Upgrading is scheduled for the future.

Setup (continued)

Network

The network settings can be performed.

Item	Factory-Preset	Description
Streaming		
IP Address	-	IP address setting for the Back-End Server for streaming
Alert Streaming	Checked	When streaming is in progress in the Back-End application, that is indicated on the Front-End application, that is
Resolution	QCIF	Resolution of video Setting values: QCIF, CIF, DV
Recorder (PC LAN)		Setting of the LAN port on the Memory Card Video Recorder for connection with the Front-End server
DHCP*1	Server1	Setting of whether the port will serve as a DHCP server or not Setting values: OFF, Server1, Server2, Server3, Server4
Recorder (UPLOAD LAN)		Setting of the wired LAN port on the Memory Card Video Recorder for connection with the Back-End Server
DHCP	Client	Setting of whether setting data will be obtained from the DHCP server or not Setting values: OFF, Client
Recorder (USB WIRELESS LAN)		Setting of the wireless LAN port on the Memory Card Video Recorder for connection with the Back-End Server
DHCP	Client	Setting of whether setting data will be obtained from the DHCP server or not Setting values: OFF, Client
AP Priority	AP Highest	Set the priority of connection order to the access points. Setting values: AP Highest, Random

*1 If Server1, Server2, Server3, or Server4 is selected, the IP Address, Subnet Mask, and Gateway are fixed as shown below. If Off is selected, the IP Address, Subnet Mask, and Gateway can be changed.

	Server1	Server2	Server3	Server4	OFF
IP Address	192.168.10.10	192.168.217.192	172.24.217.192	10.216.217.192	192.168.10.10
Subnet Mask	255.255.255.0	255.255.255.0	255.255.255.0	255.255.255.0	255.255.255.0
Gateway	--	--	--	--	--

Embedded OSD

The settings for Embedded On-Screen Display can be performed.

Item	Factory-Preset	Description
Embedded OSD		Setting of whether Embedded OSD is displayed or not
Main	ON	Embedded OSD display setting for the Main video Setting values: ON, OFF
Sub	ON	Embedded OSD display setting for the Sub video Setting values: ON, OFF
Display Position	Upper-Left	Setting of Embedded OSD display location Setting values: Upper-Left, Upper-Right, Bottom-Left, Bottom-Right
Embedded OSD Item		Settings of display items
Time	ON	Date/Time display setting Setting values: ON, OFF
Trigger	ON	Embedded OSD display when trigger signals (GPI1-16) are input Setting values: ON, OFF
VehicleID@Area	OFF	Setting of whether the vehicle identification data and location name are displayed Setting values: ON, OFF

Setup (continued)

Radar/GPS

Settings related with a radar gun and GPS

Item	Factory-Preset	Description
Radar		Settings related with a radar gun*1
Connection of Radar	OFF	Device to which a radar gun is connected*1 Setting values: Recorder, Off
Model Select	ProLaser3	Model selection of the radar gun Setting values: ProLaser3 STALKER_DUAL GOLDEN_EAGLE_II
GPS		GPS-related settings
Connection of GPS	Recorder	Device to which the GPS is connected Setting values: Recorder, OFF
Collection Time[s]	1	Intervals of GPS data collection (seconds) Setting values: 1, 2, 5, 10
Rec Start Information		
Speed Unit	MPH	Unit of the speed of your vehicle Setting values: MPH (mile/h), km/h

*1 To use a radar gun, consult your supplier.

Setup (continued)

Rec/Play

The settings related with recording and playback can be performed.

Item	Factory-Preset	Description
Rec		Recording-related settings
PreRec Time (Video) [s]	30	Video prerecording time (seconds) Setting values: 0, 10, 20, 30, 60, 90
PostRec Time (Video) [s]	0	Video post-recording time (seconds) Setting values: 0, 10, 20, 30, 60, 90
PreRec Time (Audio) [s]	0	Audio prerecording time (seconds) Setting values: 0, 3, 10, 20, 30, 60, 90
PostRec Time (Audio) [s]	0	Audio postrecording time (seconds) Setting values: 0, 3, 10, 20, 30, 60, 90
Rec Continue Time [min]	Continue	Recording duration (minutes) Setting values: Continue, 1, 2, 5, 10, 15, 20, 30, 60, 90
Intermittent Rec	OFF	Intermittent recording Setting values: ON, OFF
Loop Rec	OFF	Loop recording Setting values: ON, OFF
Rule of Filename	World Time	Rules of filename for recording files Setting values: World Time, Local Time
Power On Rec	OFF	Automatic start of recording upon power-on Setting values: ON, OFF
Record sound	OFF	Setting of a beep during recording Setting values: ON, OFF
GPO		GPO settings
GPO1 Signal	OFF	Setting of output signals to GPO1 Setting values: OFF, REC, ERROR, REC+ERROR
GPO2 Signal	OFF	Setting of output signals to GPO2 Setting values: OFF, REC, ERROR, REC+ERROR
GPO3 Signal	OFF	Setting of output signals to GPO3 Setting values: OFF, REC
Auto Power Off		Settings upon automatic power-off
Power Off Time [min]	After Upload	Time required from the ACC signal is turned off up to the Memory Card Video Recorder is turned off (minutes) Setting values: 0, 10, 20, 30, 60, 90, 120, 180, After Upload
Apply To	APPLICATION AND LAPTOP	When Power Off Time is set to After Upload, select which one's uploading is to be observed. Setting values: APPLICATION ONLY, LAPTOP ONLY, APPLICATION AND LAPTOP
Action Specified	Lock	When Power Off Time is set to After Upload, select an action. Setting values: Close, Lock, Log off, Shutdown, Stand by
Timeout[s]	120	When Power Off Time is set to After Upload, select time required for the Memory Card Video Recorder to shut itself off after the specified action. (Seconds) Setting values: 30, 60, 90, 120

(to be continued to the next page)

Setup (continued)

Item	Factory-Preset	Description
Init Settings after power ON		Initial settings upon power-on
Init Preset Select* ¹	Preset 1	Initial Preset setting Setting values: Preset1, Preset2, Preset3, LAST* ²
Init Video Out 1* ¹	Video Out2	Setting of the throughout video signal to the [VIDEO OUT 1] connector Setting values: CAM1, CAM3, Video Out2, LAST* ²
Classify		Classify information setting
Force Classify	DISABLE	Addition of classify information Setting values: DISABLE (No addition) ENABLE (Addition permitted) FORCE (Forcible addition)
Storage Capacity Warning		Classify information setting
Remaining Recordable Time [min]	60	A warning sounds when the remaining recordable time becomes shorter than the value set here. Setting values: 30, 60, 90 (minutes)
Warning sound	OFF	Select if a short beep is to sound twice every 30 seconds when the remaining recordable time becomes shorter than the set value. Setting values: ON, OFF

*1 Depending on the settings on the Video Allocation screen, some items may not be displayed.

*2 The setting upon the last power-off will be restored when the camera is turned on. If the Memory Card Video Recorder is not turned off properly, the setting data upon power-off may not be stored properly.

Setup (continued)

Registration

Various data can be registered.

Item	Factory-Preset	Description
Meta Definition	Administrator	Select the type of meta definition to be registered to the Memory Card Video Recorder. Setting values* ¹ : Administrator, Agency, Unit, Shift, Area, VehicleID
Allow Guest Login	OFF	Select if login of a user who has not been registered in the Back-End Server or the Memory Card Video Recorder is permitted or not. Setting values: ON, OFF
Login using your current login account in the operating system	OFF	Select whether the login screen with the password entered will be displayed upon startup. Setting values: ON, OFF
Clear User Information on Recorder when logout	OFF	Select if the user information of the Memory Card Video Recorder is deleted upon logoff. Setting values: ON, OFF
Disable Operation for	OFF	Set the operation prohibited by a user. Setting values: STOP, OFF
Simple Operation Mode Only	OFF	Select if only Simple Operation mode screen is permitted by a user or not. Setting values: ON, OFF
Export/DVD burn Operation	DISABLE	Set if export and DVD burn is enabled by a user. Setting values: ENABLE, DISABLE

*1 Setting values of Meta Definitions can be changed when installing the Back-End Server.

Exporting from the Front-End application is not available at present. Upgrading is scheduled for the future.

Triggers

The trigger signals (GPI1-16) can be set.

Item	Factory-Preset	Description
Trigger	ON	Set if the GPI trigger function is used or not. Setting values: ON, OFF
Name	-	Enter a GPI trigger name.
Action	NONE	Action when a trigger signal (GPI1-16) is detected. Setting values: NONE (No action) REC (recording), STOP (stop) AUTOZOOM (Automatic zoom-in, pause for a specified time, then zoom-out) CAM1LED (Switching [lit/unlit] of the [REC] lamp of the color camera connected with the [CAMERA 1] input connector) Preset 1 (Preset 1 input selected) Preset 2 (Preset 2 input selected)* ¹ Preset 3 (Preset 3 input selected)* ¹ Preset 1 Rec (Recording of Preset 1 input video) Preset 2 Rec (Recording of Preset 2 input video)* ¹ Preset 3 Rec (Recording of Preset 3 input video)* ¹ AUDIO2ON* ² (Recording of [AUDIO IN2] input) AUDIO2MUTE* ² (No recording of [AUDIO IN2] input) TGT(REC) (Recording starts upon a TGT input.)* ³ TGT(P1REC) (Recording of input signals set in Preset1 starts upon a TGT input.)* ³ TGT(P2REC) (Recording of input signals set in Preset2 starts upon a TGT input.)* ^{1,3} TGT(P3REC) (Recording of input signals set in Preset3 starts upon a TGT input.)* ^{1,3} OWN(REC) (Recording starts upon a OWN input.) OWN(P1REC) (Recording of input signals set in Preset1 starts upon an OWN input.)* ³ OWN(P2REC) (Recording of input signals set in Preset2 starts upon an OWN input.)* ^{1,3} OWN(P3REC) (Recording of input signals set in Preset3 starts upon an OWN input.)* ^{1,3}
Detection	High	Detection method for trigger signals (GPI1-16) The selectable detection methods vary, depending on the Action setting. • In a case of REC, Preset1 Rec, Preset2 Rec, or Preset3 Rec Setting values: High (High-edge trigger) Level High (High-level trigger) Low (Low-edge trigger) Level Low (Low-level trigger) Both (Both-edge trigger) • In a case of Preset1, Preset2, Preset3, CAM1LED, AUTOZOOM, AUDIO2ON, or STOP Setting values: High (High-edge trigger) Low (Low-edge trigger) Both (Both-edge trigger) • In a case of TGT(REC), TGT(P1REC), TGT(P2REC), TGT(P3REC), OWN(REC), OWN(P1REC), OWN(P2REC), or OWN(P3REC) Setting values: OFF, 1, 2, . . . 200 • In a case of NONE Setting values: High (High-edge trigger) Low (Low-edge trigger)
Display	OFF	Character definition when one character is displayed as an OSD Setting values: A-Z, -, OFF

*1 These cannot be selected if Preset2 or Preset3 is not specified on the Allocation (Video/Audio) screen.

*2 These cannot be selected if Audio2 on the Allocation (Video/Audio) screen is set to OFF.

*3 Selectable only for Trigger15 and 16.

Error Messages

Messages for the Back-End Administrator Application

No.	Message	Measure
90000	Failed to update due to illegal data. Please confirm the input information.	An error was generated while updating screen data because of illegal data, etc.
90010	Please wait. Accessing DB in process.	The program cannot be exited, because the DB is being accessed. Please wait.
90100	No rights to update remotely.	The remote update operation is not authorized. Obtain remote update authority with BEA.
90200	No rights to set users.	User operation is not authorized. Obtain user authority for the user or group with BEA.
90300	No rights to set groups.	The group operation is not authorized. Obtain group authority for the user or group with BEA.
90400	No right to set rules.	Rule-setting is not authorized. Obtain rule-setting authority for the user or group with BEA.
90500	No rights to set classify.	Classify setting is not authorized. Obtain classify-setting authority for the user or group with BEA.
90600	No rights to change configuration.	System setting is not authorized. Obtain system-setting authority for the user or group with BEA.
9010	A fatal error occurred. It will end the application.	An error was generated. A program bug is suspected.
9020	This application already started.	This application has already started.
10000	Failed to update due to illegal data. Please confirm the input information.	An error was generated while updating screen data because of illegal data, etc. Make sure that the input data are correct.
11000	Failed to update due to illegal data. Please confirm the input information.	An error was generated while updating screen data because of illegal data, etc. Make sure that the input data are correct.
11100	Failed to get the information.	Acquisition of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
11110	Failed to get the software release information	Acquisition of the information failed. Verify with the administrator that the BES has started. Check also that the network connection is properly made.
11120	Failed to get the machine information.	Acquisition of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
11130	Failed to get the installation information.	Acquisition of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
11230	Fail to get the free field information.	Acquisition of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
11200	Failed to get the free field information	An error was generated while data was being written. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
11210	Failed to set the information.	An error was generated while data was being written. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
11220	Failed to set the installation information.	An error was generated while data was being written. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
11300	Failed to delete the machine information.	An error was generated while data was being written. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
11400	No Upload Application file was found.	The application file to be registered does not exist. (This error is not generated in normal situations.)
11410	Failed to get the file version information of upload application.	The version data of the application file to be registered cannot be obtained. Check that the correct application file is specified.
11420	This is not a valid update file. Please select a valid file.	The application file to be registered is improper. Check that the correct application file is specified.

Error Messages (continued)

No.	Message	Measure
11430	This version has already been registered.	The updater module is of the same version as that already registered with the BES and cannot be registered.
11500	You have not selected a valid update file. Please do this first.	The application file to be registered is improper. Check that the correct application file is specified.
11600	Too many registered data.	The number of FEs or VPUs registered with the BES exceeds the predetermined value.
14000	Failed to update due to illegal data. Please confirm the input information.	An error was generated while updating screen data because of illegal data, etc. Make sure that the input data are correct.
14100	Failed to get the information.	Acquisition of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
14110	Failed to get the machine Information.	Acquisition of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
14120	Failed to get the software Information.	Acquisition of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
14130	Failed to get the group Information.	Acquisition of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
14140	Failed to get the free field information.	Acquisition of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
14200	Failed to set the Information.	Setting of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
14210	Failed to set the installation information.	An error was generated while data was being written. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
14220	Failed to set the machine Information.	Setting of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
14300	Failed to delete the machine information.	Deletion of data failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
14400	Too many registered data.	The number of the VPUs registered with the BES exceeds the predetermined value.
15000	Failed to update due to illegal data. Please confirm the input information.	An error was generated while updating screen data because of illegal data, etc. Make sure that the input data are correct.
15002	Too many registered data.	The number of registered recorder settings exceeds 100. Decrease the number of registered recorder settings then try again.
15100	Failed to get the setting information.	Acquisition of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
15110	Failed to get the setting information.	Acquisition of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
15200	Failed to delete the setting information.	Deletion of data failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
15300	Failed to edit the setting information.	Updating of data failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
16000	Failed to update due to illegal data. Please confirm the input information.	An error was generated while updating screen data because of illegal data, etc. Make sure that the input data are correct.
16010	No group name input.	No group name was input. Input the group name.
16100	Failed to get the information.	Acquisition of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.

Error Messages (continued)

No.	Message	Measure
16110	Failed to get the machine information.	Acquisition of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
16120	Failed to get the group Information.	Acquisition of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
16130	Failed to get the free field information.	Acquisition of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
16140	Too many registered data.	The number of registered VPU-setting groups exceeded the predetermined value.
16200	Failed to set the information.	Setting of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
16110	Failed to set the machine Information.	Setting of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
16220	Failed to set the group information.	Setting of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
17000	Failed to update due to illegal data. Please confirm the input information.	An error was generated while updating screen data because of illegal data, etc. Make sure that the input data are correct.
17010	Input the title.	No title has been input. Input a title.
17100	Failed to get the data.	Acquisition of VPU-setting data failed. (This error is not generated in normal situations.)
17110	Fail to decompress the data.	Acquisition of VPU-setting data failed. (This error is not generated in normal situations.)
17000	Failed to update due to illegal data. Please confirm the input information.	An error was generated while updating screen data because of illegal data, etc. Make sure that the input data are correct.
17010	Failed to compress files.	File compression failed. (This error is not generated in normal situations.)
17020	Failed to upload.	Uploading failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
18000	Failed to update due to illegal data. Please confirm the input information.	An error was generated while updating screen data because of illegal data, etc. Make sure that the input data are correct.
18010	Failed to decompress files.	File decompression failed. (This error is not generated in normal situations.)
18020	Failed to download.	File downloading failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
20000	Failed to update due to illegal data. Please confirm the input information.	An error was generated while updating screen data because of illegal data, etc. Make sure that the input data are correct.
20002	Too many registered data.	The number of registered users exceeds 40,000. Decrease the number of registered users then try again.
20010	Failed to get the user information.	Acquisition of user data failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
20020	Failed to delete the user data.	Deletion of user data failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
21000	Failed to update due to illegal data. Please confirm the input information.	An error was generated while updating screen data because of illegal data, etc. Make sure that the input data are correct.
21010	Failed to get the group Information.	Acquisition of group information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
21020	Failed to get the user information.	Acquisition of user data failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
21030	No user ID input.	No user ID has been input. Input the user ID.
21040	The passwords you typed do not match. Please retype the passwords.	The input password is wrong. Input a correct password.
21050	Failed to update the DB.	DB data writing failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.

Error Messages (continued)

No.	Message	Measure
54060	Failed to get the password information.	Acquisition of password information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
21050	This user has already existed.	A user with the same user ID exists. Change the user ID.
22000	Failed to update due to illegal data. Please confirm the input information.	An error was generated while updating screen data because of illegal data, etc. Make sure that the input data are correct.
22010	Failed to get the data from Active Directory Server.	Data acquisition from the active directory server failed. Check also that the network connection is properly made.
23000	Failed to update due to illegal data. Please confirm the input information.	An error was generated while updating screen data because of illegal data, etc. Make sure that the input data are correct.
30000	Failed to update due to illegal data. Please confirm the input information.	An error was generated while updating screen data because of illegal data, etc. Make sure that the input data are correct.
30002	Too many registered data.	The number of registered groups exceeds 1,000. Decrease the number of registered groups then try again.
30010	Failed to get the group Information.	Acquisition of the group list failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
30020	Failed to delete the group information.	Deletion of group information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
31000	Failed to update due to illegal data. Please confirm the input information.	An error was generated while updating screen data because of illegal data, etc. Make sure that the input data are correct.
31010	Failed to get the group Information.	Acquisition of group information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
31020	Failed to get the user information.	Acquisition of user data failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
31030	No group name input.	No group name was input. Input the group name.
31040	Failed to update the DB.	DB data writing failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
31050	This user has already existed.	An identical user name exists. Specify a different user name.
32000	Failed to update due to illegal data. Please confirm the input information.	An error was generated while updating screen data because of illegal data, etc. Make sure that the input data are correct.
32110	Fail to export.	Acquisition of user data failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
32120	Fail to set the group information.	Acquisition of group information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
32140	Failed to write files.	File data writing failed. Check (1) that there is sufficient free space on the destination medium, (2) that the medium has been properly inserted, (3) if the medium is write-protected, and (4) that writing to the destination medium is authorized.
32210	Failed to import	Importing failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
32220	Failed to set the user information.	Importing failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
32230	Failed to set the group information.	Importing failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
32240	Failed to set the Group list information.	Importing failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
40000	Failed to update due to illegal data. Please confirm the input information.	An error was generated while updating screen data because of illegal data, etc. Make sure that the input data are correct.
40002	Too many registered data.	The number of registered evidence rules exceeds 100. Decrease the number of registered evidence rules then try again.
40010	Failed to get the evidence rule information.	Acquisition of the list of evidence rules failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.

Error Messages (continued)

No.	Message	Measure
40020	Fail to get the group information.	Acquisition of the group list failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
40030	Failed to get the free field information	Acquisition of the list of free fields failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
40100	Fail to delete the Evidence rules.	Deletion of evidence rules failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
40110	Failed to add the Evidence rules.	Addition of evidence rules failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
40120	Failed to edit the Evidence rules.	Editing of evidence rules failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
40130	Fail to update the Evidence rule.	Updating of evidence rules failed.
40140	Rule name has already existed.	An identical evidence rule name already exists. Input a different evidence rule name.
41000	Failed to update due to illegal data. Please confirm the input information.	An error was generated while updating screen data because of illegal data, etc. Make sure that the input data are correct.
41020	Failed to get the group Information.	Acquisition of evidence rules failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
41030	Failed to get the free field information	Acquisition of evidence rules failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
41040	Failed to get the drive information.	Acquisition of evidence rules failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
41050	No Rules Name input.	No evidence rule name was input. Input the rule name.
41060	Input Storage Days.	No storage period has been input. Input a storage period.
41070	Check Storage Location.	No storage location is specified. Specify a storage location.
41080	Check permission.	No account is specified. Specify an account.
41090	The retention period is too long. The maximum terms that can be set are 4000 days.	The specified storage duration exceeds the limit. Specify within the predetermined range.
40000	Failed to update due to illegal data. Please confirm the input information.	An error was generated while updating screen data because of illegal data, etc. Make sure that the input data are correct.
40010	Failed to get the classify information.	Acquisition of the Classify List failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
40020	Failed to delete the classify information.	Deletion of the Classify List failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
40030	Failed to add the classify information	Deletion of the Classify List failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
40040	Failed to edit the classify information	Editing of the Classify List failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
40050	This data has already existed.	A classify tag with an identical name already exists. Specify a different name.
40060	Input Classify Tag.	No classify tag name was input. Input a classify tag name.
40070	Too many registered data.	The number of registered classify tags exceeds 50. Decrease the number of registered classify tags then try again.
50000	Failed to update due to illegal data. Please confirm the input information.	An error was generated while updating screen data because of illegal data, etc. Make sure that the input data are correct.
51000	Failed to update due to illegal data. Please confirm the input information.	An error was generated while updating screen data because of illegal data, etc. Make sure that the input data are correct.

Error Messages (continued)

No.	Message	Measure
51010	Too many registered data.	The number of registered data exceeds the specified value. Decrease the number of registered data then try again.
51020	A minimum free space is too large. The maximum value that can be set is 1000GB.	The minimum size for the archive area is too great. Specify a smaller value.
51030	The retention period of the illegal video is too long. The maximum terms that can be set are 4000 days.	The specified preservation duration exceeds the limit. Specify within the predetermined range.
51100	Failed to get the information.	Acquisition of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
51110	Failed to get the drive information.	Acquisition of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
51120	Failed to get the schedule information.	Acquisition of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
51200	Failed to set the information.	Data writing failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
51210	Fail to set the drive information.	Data writing failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
51220	Failed to set the schedule information.	Data writing failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
51230	This folder has been registered.	As the folder has been already registered, registration of that folder is not possible.
51240	The folder cannot be deleted any further.	Not all folders can be deleted. At least one folder must be registered.
51250	This folder cannot be used.	The root directory cannot be specified. Specify a different folder.
51260	This folder cannot be used. The specified file path is too long. The file path that can be specified is within 200 characters.	This folder cannot be used because the specified file path is too long. Specify the file path within 200 characters.
52000	Failed to update due to illegal data. Please confirm the input information.	An error was generated while updating screen data because of illegal data, etc. Make sure that the input data are correct.
52010	The log retention period is too long. The maximum terms that can be set are 4000 days.	The specified preservation duration exceeds the limit. Specify within the predetermined range.
52020	The capacity limitation size of the log is too large. The maximum capacity that can be set is 1000MB.	The minimum size for the archive area is too great. Specify a smaller value.
52100	Failed to get the information.	Acquisition of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
52110	Failed to get the drive information.	Acquisition of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
52120	Failed to get the schedule information.	Acquisition of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
52200	Failed to set the information.	Data writing failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
52210	Failed to set the drive information.	Data writing failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
52220	Failed to set the schedule information.	Data writing failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
52230	This folder cannot be used.	The root directory cannot be specified. Specify a different folder.
52240	This folder cannot be used. The specified file path is too long. The file path that can be specified is within 200 characters.	As the specified file path is too long, this folder cannot be used. Specify a file path within 200 characters.
53000	Failed to update due to illegal data. Please confirm the input information.	An error was generated while updating screen data because of illegal data, etc. Make sure that the input data are correct.

Error Messages (continued)

No.	Message	Measure
53010	The period until E-mail is transmitted is too long. The maximum terms that can be set are 30 days.	A retention period until the e-mail is transmitted exceeds the limit. The maximum period that can be set is 30 days.
53100	Failed to get the information.	Acquisition of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
53110	Failed to get the schedule information.	Acquisition of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
53120	Failed to get the group Information.	Acquisition of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
53200	Failed to set the information.	Data writing failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
53210	Failed to set the schedule information.	Data writing failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
54000	Failed to update due to illegal data. Please confirm the input information.	An error was generated while updating screen data because of illegal data, etc. Make sure that the input data are correct.
54010	Illegal setting range for the retention period.	The specified retention period is outside the predetermined range.
54012	Illegal input contents for the retention period.	The specified retention period data are incorrect.
54020	A value that is bigger than the maximum value is set to the minimum value of the length of password.	The value specified as the minimum password length is greater than the maximum password length.
54022	The minimum value of the length of password is illegal. Please set the value within the range of 6 to 12.	The minimum value for the password length is incorrect. Specify a value in the range of 6 to 12.
54024	The maximum value of the length of password is illegal. Please set the value within the range from 6 to 12.	The maximum value for the password length is incorrect. Specify a value in the range of 6 to 12.
54030	The validity term of the password is too long. The maximum terms that can be set are 4000 days.	The validity term of the password is too long. The maximum term that can be set is 4000 days.
54100	Failed to get the information.	Acquisition of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
54110	Fail to get the password information.	Acquisition of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
54200	Failed to set the information.	Data writing failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
54210	Failed to set the password information.	Data writing failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
55000	Failed to update due to illegal data. Please confirm the input information.	An error was generated while updating screen data because of illegal data, etc. Make sure that the input data are correct.
55010	No Server information input	An error was generated while updating screen data because of illegal data, etc.
55100	Failed to get the information.	Acquisition of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
55110	Failed to get the network information.	Acquisition of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
55120	Failed to get IP Address information.	Acquisition of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
55200	Failed to set the information.	Data writing failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
55220	Failed to set IP Address information.	Data writing failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
55230	Failed to set the network information.	Data writing failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.

Error Messages (continued)

No.	Message	Measure
55240	IP address cannot be registered any further.	The number of registered IP addresses exceeds the specified value. Decrease the number of registered IP addresses then try again.
60000	Failed to update due to illegal data. Please confirm the input information.	An error was generated while updating screen data because of illegal data, etc. Make sure that the input data are correct.
60010	Illegal IP address range. Input the number between 0 and 255.	Invalid data are input. Input a value in the range of 0 to 255.
60020	Illegal IP address range. Input the larger number at "To" than "From".	An invalid value is input. A value greater than that of the From address must be input as the To address.
60100	Failed to update due to illegal data. Please confirm the input information.	An error was generated while updating screen data because of illegal data, etc. Make sure that the input data are correct.
60110	Failed to get the information.	Acquisition of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
60120	Failed to get the drive information.	Acquisition of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
60130	Fail to get the information	Acquisition of the information failed. Verify with the administrator that the BES and DB have started. Check also that the network connection is properly made.
60140	Can't assign the read-only folder.	A read-only folder cannot be registered.
60150	Can't assign the offline folder.	An off-line folder cannot be registered.
60160	Can't assign the system folder.	A system folder cannot be registered.
60170	Can't assign the folder which belongs to this folder.	The following special folders which the OS uses cannot be registered: System folders Desktop folders Shared program files Cookies Logs Internet cache Program files Document template Startup Recently accessed documents Startup menu
60180	Can't assign the private folder.	A private folder cannot be registered.
60200	Failed to update due to illegal data. Please confirm the input information.	An error was generated while updating screen data because of illegal data, etc. Make sure that the input data are correct.
60300	Failed to update due to illegal data. Please confirm the input information..	An error was generated while updating screen data because of illegal data, etc. Make sure that the input data are correct.
60310	A minimum free space is too large. The maximum value that can be set is 1000GB.	The minimum size for the archive area is too great. Specify a smaller value.
60320	This folder cannot be used.	The root directory cannot be specified. Specify a different folder.
60330	This folder cannot be used. The specified file path is too long. The file path that can be specified is within 200 characters.	As the specified file path is too long, this folder cannot be used. Specify a file path within 200 characters.
—	Disconnected to the recorder.	
—	Improper module structure. Please reinstall.	
—	Invalid officer1 ID. Please input registered ID.	The Officer 1 ID is invalid. • Check that Officer 1 has been registered in the Back-End System. • Check that Officer 1 has been registered in the recorder. • Set Guest mode to ON in Administrator Setup.
—	Invalid officer2 ID. Please input registered ID.	The Officer 2 ID is invalid. • Check that Officer 2 has been registered in the Back-End System. • Check that Officer 2 has been registered in the recorder. • Set Guest mode to ON in Administrator Setup.
—	The officer1ID and the officer2 ID are the same. Please input different IDs.	The IDs for Officers 1 and 2 are identical. • Use different IDs.
—	The password is wrong.	The input password is invalid. • Input a valid password.

Error Messages (continued)

No.	Message	Measure
—	Cannot set the same preset. Set different preset.	A different preset setting has been made with an identical preset No. • Use a different preset No.
—	Invalid Camera connection. Connect two or more cameras or either from camera1 to camera3.	Invalid camera connection: • Connect 2 or more cameras. • Connect any of Cameras 1 to 3.
—	When preset3 is set, it is not possible to set "None" in preset2.	When Preset 3 has been set, "None" cannot be specified for Preset 2.
—	The retyped password is different. Please input again.	The retyped password is different. Input the password again.
—	An invalid character is included. Please input again.	Up to xxx characters can be used in a folder name. Select another folder.
—	Length of folder name is up to {0}. Select the other folder.	An invalid character is included. • Input again. The available characters are "<"(3Ch), ">"(3Eh), "\"(5Ch), "&"(26h), "."(2Ch), control characters (00h–1Fh), and one-byte alphanumerics and symbols, except for "DELETE"(7Fh).
—	Failed to export AVViewer.	Exporting of AV Viewer failed. • Check that there is sufficient free space on the destination medium. • Check if the medium is write-protected. • Check that writing to the destination medium is authorized. • Reinstall AV Viewer.
—	The time for setting day/night view is the same. Please set another time.	Identical times are set for switching the day/night views. • Set different times.
—	There is no last error.	There is no last error log.
—	Please input both IP address and the subnet mask.	Specify both the IP address and subnet mask.
—	Either of IP address, the subnet mask or the default gateway value is not correct. Please input again.	The IP address, subnet mask, or default gateway is incorrect. • They are configured as four numbers delimited by periods, each in the range of 0 to 255. Input correct values.
—	IP address is not correct. Please input again.	The value for the IP address is invalid. • The IP address is configured as four numbers delimited by periods, each in the range of 0 to 255. Input the password again.
—	Invalid the gateway address.	The gateway address is invalid. • Check that the IP address and gateway are set on the same subnet.
—	Invalid the subnet mask.	The subnet mask is invalid. • Check that the subnet mask in the network section and that in the host section are correct.
—	The length of the character string is 5 or 13. Or, if the length of the character string is 10 or 26, please input character (0-9,a-f,A-F) that shows the hexadecimal number.	The length of the encryption key (WEP) is invalid. • Check that the length of character string is 5 or 13. If it is 10 or 26, check that it is the hexadecimal number (using characters 0-9, a-f, A-F).
—	The length of the character string is eight or more, and 63 or less. Or, if the length of the character string is 64, please input character (0-9,a-f,A-F) that shows the hexadecimal number.	The length of the encryption key (WPA) is invalid. • Check that the length of character string is eight or more, and 63 or less. If it is 64, check that it is the hexadecimal number (using characters 0-9, a-f, A-F).
—	Cannot set the same IP Address. Set the different IP Address.	The same IP Address cannot be set for PC-LAN, UPLOAD-LAN, and WIRELESS-LAN. • Set the different IP Address.
—	The snapshot folder doesn't exist.	The specified snapshot folder does not exist. • If the snapshot folder is stored in a removable medium, check that the removable medium is connected to the PC.
—	There is no snapshot in the folder.	As the specified snapshot file is not in the specified snapshot folder, that snapshot image cannot be sent by e-mail. • If the storage location of a snapshot file is changed, transmission of the file is not possible.

Messages Common to the Front-End Application

No.	Message	Measure
E00410	Invalid update file was found.	<p>The update file on the USB memory device is corrupted.</p> <ul style="list-style-type: none"> • Check whether the update file for the recorder has been correctly copied to the USB memory device. • Reformat the SDHC Memory Card or USB memory device before use. • Use another USB memory device.
E00411	Update file was not found.	<p>No update file could be found on the USB memory device.</p> <ul style="list-style-type: none"> • Check whether the update file for the recorder has been correctly copied to the USB memory device. • Reformat the SDHC Memory Card or USB memory device before use. • Use another USB memory device.
E00412	Two or more update files were found.	<p>Multiple update files were found on the USB memory device.</p> <ul style="list-style-type: none"> • Check whether there are multiple update files on the USB memory device. • Check whether there are multiple USB memory devices containing update files.
E00413	Invalid update file was found.	<p>The update file on the USB memory device is corrupted.</p> <ul style="list-style-type: none"> • Check whether the update file for the recorder has been correctly copied to the USB memory device. • Reformat the SDHC Memory Card or USB memory device before use. • Use another USB memory device.
E00414		
E00415		
E00418	Update file was not found.	<p>No update file could be found on the USB memory device.</p> <ul style="list-style-type: none"> • Check whether the update file for the recorder has been correctly copied to the USB memory device. • Reformat the SDHC Memory Card or USB memory device before use. • Use another USB memory device.
E00419	This media cannot be used for update.	<p>The used USB memory device cannot be used for updating.</p> <ul style="list-style-type: none"> • A USB memory device containing a folder other than the \WIDKEY folder cannot be used for updating.
E00420	Update file cannot be read.	<p>An update file load error occurred.</p> <ul style="list-style-type: none"> • Check whether the update file for the recorder has been correctly copied to the USB memory device. • Reformat the SDHC Memory Card or USB memory device before use. • Use another USB memory device.
E00449	Unexpected update failure was found.	<p>Some other update error occurred.</p> <ul style="list-style-type: none"> • Check whether the update file for the recorder has been correctly copied to the USB memory device. • Reformat the SDHC Memory Card or USB memory device before use. • Use another USB memory device.
E00460	Invalid update file was found.	<p>The update file on the USB memory device is corrupted.</p> <ul style="list-style-type: none"> • Check whether the update file for the recorder has been correctly copied to the USB memory device. • Reformat the SDHC Memory Card or USB memory device before use. • Use another USB memory device.
E00461	Update file was not found.	<p>No update file could be found on the USB memory device.</p> <ul style="list-style-type: none"> • Check whether the update file for the recorder has been correctly copied to the USB memory device. • Reformat the SDHC Memory Card or USB memory device before use. • Use another USB memory device.

Error Messages (continued)

No.	Message	Measure
E00462	Two or more update files were found.	Multiple update files were found on the USB memory device. <ul style="list-style-type: none"> • Check whether there are multiple update files on the USB memory device. • Check whether there are multiple USB memory devices containing update files.
E00463	Invalid update file was found.	The update file on the USB memory device is corrupted. <ul style="list-style-type: none"> • Check whether the update file for the recorder has been correctly copied to the USB memory device. • Reformat the SDHC Memory Card or USB memory device before use. • Use another USB memory device.
E00464		
E00465		
E00466	Unexpected update failure was found.	Some other update error occurred. <ul style="list-style-type: none"> • Check whether the update file for the recorder has been correctly copied to the USB memory device. • Reformat the SDHC Memory Card or USB memory device before use. • Use another USB memory device.
E00467		
E00468	Update file was not found.	No update file could be found on the USB memory device. <ul style="list-style-type: none"> • Check whether the update file for the recorder has been correctly copied to the USB memory device. • Reformat the SDHC Memory Card or USB memory device before use. • Use another USB memory device.
E00469	This media cannot be used for update.	The used USB memory device cannot be used for updating. <ul style="list-style-type: none"> • A USB memory device containing a folder other than the \WIDKEY folder cannot be used for updating.
E00470	Update file cannot be read.	An update file load error occurred. <ul style="list-style-type: none"> • Check whether the update file for the recorder has been correctly copied to the USB memory device. • Reformat the SDHC Memory Card or USB memory device before use. • Use another USB memory device.
E00499	Unexpected update failure was found.	Some other update error occurred. <ul style="list-style-type: none"> • Check whether the update file for the recorder has been correctly copied to the USB memory device. • Reformat the SDHC Memory Card or USB memory device before use. • Use another USB memory device.
E00602	AG-RCP30 needs to be updated! Will start updating soon.	A connected AG-RCP30 was found to need an update. The Remote Control Panel reboots automatically to start an update.
E00603	Unsupported Control Panel! Replace Control Panel.	A Remote Control Panel not supported by the Memory Card Video Recorder was detected. Disconnect the Remote Control Panel.
E00604	Will power off after uploading. Turn ACC ON to cancel power off.	The vehicle engine switch is set to LOCK (OFF) when "Power Off Time" on page 50 is set to "After Upload." The system awaits that uploading is finished, that the connection with the Back-End application is released, or uploading, streaming, administrator setup, or upgrading on the Back-End application is finished. To continue using the Memory Card Video Recorder without turning it off, set the engine switch to ON.
E02431	DSP error.	Wait until the error message is cleared. Contact your supplier if the message does not clear after about a minute.
E02432	This system is rebooting.	
E02440	System error. Couldn't format cards	Insert another SDHC Memory Card.
E02441	Couldn't format cards.	

Error Messages (continued)

No.	Message	Measure
E02442	Write Protect cards found. Couldn't format.	Disable SDHC Memory Card write-protection.
E02444	No SDHC Cards found. Couldn't format.	Insert an SDHC Memory Card.
E02460	System error. Couldn't delete files.	Contact your supplier.
E02461	Couldn't delete files.	Check the card information, and proceed as follows according to the information. CARD PROTECT: Disable SDHC Memory Card write-protection. UNFORMATTED: Replace with the formatted SDHC Memory Card. NO CARD: Insert an SDHC Memory Card. Others: Replace the SDHC Memory Card with another one.
E02470	System error. Couldn't restore files.	Contact your supplier.
E02471	Couldn't restore files.	
E02481	Write error on slot1. Record cannot be continued.	Be sure to use the correct procedure to remove and load SDHC Memory Cards. Replace an SDHC Memory Card that is not recognized after inserting it in the SDHC Memory Card slot and closing the SDHC Memory Card slot cover.
E02482	Write error on slot2. Record cannot be continued.	
E02483	Write error on slot3. Record cannot be continued.	
E02484	Write error on slot4. Record cannot be continued.	
E07671	CAMERA1 communication error. Please check the CAMERA1.	The Color Camera may not be correctly connected to the Memory Card Video Recorder. Check whether the camera cable (included in the Color Camera) is correctly connected to the Color Camera. Contact your supplier if this measure does not solve the problem.
E08601	Playback and record cannot be executed.	Close the SDHC Memory Card slot cover.
E08602	The recorder's fan has stopped.	Contact your supplier.
E10400	Radar model file was not found.	
E10401	More than 10 radar model files were found.	
E10402	Invalid radar model file was found.	
E10403	Radar model file cannot be read.	
E10410	Radar communication error. Please check the radar setting.	
E15751	VUP Card found on slot1. Record cannot be started.	A card for upgrading is inserted. Data cannot be written to the card.
E15752	VUP Card found on slot2. Record cannot be started.	
E15753	VUP Card found on slot3. Record cannot be started.	
E15754	VUP Card found on slot4. Record cannot be started.	
E15755	Unsupported Card found on slot1. Record cannot be started.	The inserted card cannot be used. Check card type.
E15756	Unsupported Card found on slot2. Record cannot be started.	
E15757	Unsupported Card found on slot3. Record cannot be started.	
E15758	Unsupported Card found on slot4. Record cannot be started.	

Error Messages (continued)

No.	Message	Measure
E15759	Unformatted Card found on slot1. Record cannot be started.	An unformatted SDHC Memory Card has been inserted. Format the SDHC Memory Card using the Memory Card Video Recorder or "SD Memory Card Formatting Software," or replace it with a formatted SDHC Memory Card. You can download the "SD Memory Card Formatting Software" from the Website shown below: http://panasonic.jp/support/global/cs/sd/download/sd_formatter.html
E15760	Unformatted Card found on slot2. Record cannot be started.	
E15761	Unformatted Card found on slot3. Record cannot be started.	
E15762	Unformatted Card found on slot4. Record cannot be started.	
E15763	Write Protect Card found on slot1. Record cannot be started.	The write-protect switch of the SDHC Memory Card is set to "LOCK." Slide the write-protection switch away from the "LOCK" position.
E15764	Write Protect Card found on slot2. Record cannot be started.	
E15765	Write Protect Card found on slot3. Record cannot be started.	
E15766	Write Protect Card found on slot4. Record cannot be started.	
E15767	No SDHC Cards found. Record cannot be started.	No SDHC Memory Card is inserted. Insert an SDHC Memory Card.
E15768	Write Error. Record cannot be started.	Data cannot be written to the SDHC card. Replace the SDHC Memory Card.
E15769	Card Full. Record cannot be started.	The following conditions may have occurred: <ul style="list-style-type: none"> • There is no space left on the SDHC Memory Card. • Files contained in one of the SDHC Memory Cards inserted in the SDHC Memory Card slots 1, 2, 3, and 4 exceed 5,000 files. Replace the SDHC Memory Card with an SDHC Memory Card with free capacity, or free up space of 10 Mbytes or more in the SDHC Memory Card for new data.
E20801	Recorder reboots by unrecoverable card ejection error.	Be sure to use the correct procedure to remove and load SDHC Memory Cards.
E20802	Please reinsert the card or reboot the system.	Check the SDHC Memory Card and re-insert it, or reboot the Memory Card Video Recorder.
E20901	Firmware Update FAILED!	An error occurred during the update. <ul style="list-style-type: none"> • Check whether the update file for the recorder has been correctly copied to the USB memory device. • Reformat the SDHC Memory Card or USB memory device before use. • Use another USB memory device. • Check whether there are multiple update files on the USB memory device. • Check whether there are multiple USB memory devices containing update files. • A USB memory device containing a folder other than the \WIDKEY folder cannot be used for updating.
E20911	Microcontroller Update FAILED!	An error occurred during the update. The Memory Card Video Recorder reboots automatically to restart an update. Contact your supplier if the problem persists.
E20912	Unsupported Microcontroller Detected!	The Memory Card Video Recorder has broken down. Contact your supplier.
E20921	AG-RCP30 Update FAILED!	An error occurred during an update of an AG-RCP30 connected to the Memory Card Video Recorder. The Memory Card Video Recorder reboots automatically to restart an update. Contact your supplier if the problem persists.
E20922	Unsupported Control Panel Detected!	A Remote Control Panel not supported by the Memory Card Video Recorder was detected. Disconnect the Remote Control Panel.

Error Messages (continued)

No.	Message	Measure
E22420	Officer's information file cannot be loaded.	The officer data file (WID****.TXT) is corrupted. Create a new officer's data file, save it to a USB memory device and re-register it.
E22421	Since you are not an administrator, you cannot open this menu.	You are not registered as an administrator and cannot open this menu. Ask a registered administrator for assistance.
E22422	Officer's information file cannot be loaded.	There is no Officer Registration file or it contains the wrong data. Create a correct Officer Registration file (WOFFICER.TXT), copy it to a USB memory device and reload it.
E22423	Admin's information file cannot be loaded.	There is no Administrator Registration file or it contains the wrong data. Create a correct Administrator Registration file (WADMIN.TXT), copy it to a USB memory device and reload it.
E22424	Officer's information cannot be setup during record !	Officer data cannot be changed during recording. Stop recording and start over.
E22425	Classification list cannot be loaded.	There is no classify file or the content of the file is incorrect.
E22426	Menu copy failed.	For copying to a USB memory device, connect a write-enabled USB memory device. For copying to a recorder, connect a USB memory device that contains data.
E22427	Source information file cannot be loaded.	There is no vehicle ID registration file or the content of the file is incorrect.
E22428	Shift information file cannot be loaded.	There is no shift file or the content of the file is incorrect.
E22429	Area information file cannot be loaded.	There is no area registration file or the content of the file is incorrect.
E22432	Service log copy failed.	Copying service log is failed. Retry copying.
E22448	Operation was canceled to start streaming.	Streaming starts, and the operation is canceled. Wait until streaming ends.
E25410	GPS communication error. Please check the GPS module.	An error occurred in the GPS module. Contact your supplier.
E27200	Finish Upload	File transfer was completed.
E27201	Storage capacity was not enough to transfer the file.	Capacity of the server is not enough for uploading data, and upload is canceled.
E27202	File transfer was completed. Restore file remained.	Upload was completed, but video files not restored remain on the SDHC Memory Card.
E27203	File not found in SDHC cards.	No file for uploading is found on an SDHC Memory Card.
E27401	Write Protect cards found. Couldn't start file transfer.	A read-only SDHC Memory Card is found, and uploading cannot be started.
E27403	Media error. File transfer was incomplete.	A read/write error has occurred on the media. Replace the SDHC Memory Card.
E27405	Storage write error. File transfer was incomplete.	A verifying error has occurred in the server storage, and upload cannot be completed.
E27407	No SDHC Cards found. Couldn't start file transfer.	No SDHC Memory Card is inserted, and upload cannot be started.
E27430	Couldn't start file transfer.	Upload cannot be started. Check the network connection.
E27431	File transfer was incomplete.	Upload cannot be completed because of the network trouble.
E27499	System error. File transfer was incomplete.	A system error has occurred, and upload cannot be completed.
E28200	Finish Export	Export was completed.
E28201	USB storage capacity was not enough to export.	Use other USB memory device that is not full.

Error Messages (continued)

No.	Message	Measure
E28202	Export was completed. Restore file remained.	Restore the file not yet restored, and export it again.
E28203	File not found in SDHC cards.	There are no files to export. No export operation needed.
E28400	No USB storage devices found. Couldn't start export.	Connect a USB memory device.
E28401	Write Protect cards found. Couldn't start export.	Disable SDHC Memory Card write-protection.
E28402	All USB storages are read only. Couldn't start export.	Connect a write-enabled USB memory device.
E28403	Media error. Export was incomplete.	Replace the SDHC Memory Card or the USB memory device.
E28404	USB storage file system error. Couldn't start export.	Replace the USB memory device.
E28405	USB storage write error. Export was incomplete.	
E28406	Found update file in USB storage. Couldn't start export.	Delete the update file on the USB memory device.
E28407	No SDHC Cards found. Couldn't start export.	Insert an SDHC Memory Card with recorded files.
E28409	Couldn't start export.	Replace the SDHC Memory Card.
E28499	System error. Export was incomplete.	Reboot the recorder.
E28880	USB storage was ejected. Export was incomplete.	Do not remove the USB memory device while exporting data. Reconnect the USB memory device and export again.
E28881	USB storage was inserted. Export was incomplete.	Export the data again.
E29400	Unsupported camera connection.	A camera is connected only to the [CAMERA 4], [CAMERA 5], or [CAMERA 6] connector. Check the input.
E29401	No CAMERA1 video signal.	[CAMERA 1] connector input cannot be detected. Check whether the signal is input to the [CAMERA 1] connector.
E29402	No CAMERA2 video signal.	[CAMERA 2] connector input cannot be detected. Check whether the signal is input to the [CAMERA 2] connector.
E29403	No CAMERA3 video signal.	[CAMERA 3] connector input cannot be detected. Check whether the signal is input to the [CAMERA 3] connector.
E29404	No CAMERA4 video signal.	[CAMERA 4] connector input cannot be detected. Check whether the signal is input to the [CAMERA 4] connector.
E29405	No CAMERA5 video signal.	[CAMERA 5] connector input cannot be detected. Check whether the signal is input to the [CAMERA 5] connector.
E29406	No CAMERA6 video signal.	[CAMERA 6] connector input cannot be detected. Check whether the signal is input to the [CAMERA 6] connector.
E30400	Network setting parameter error.	Network settings are not correct. Check the network settings.

Messages Common to the Back-End Client Application

No.	Message	Measure
1000	Failed to update due to illegal data. Please confirm the input information.	Reinstall.
1010	No Back-End Server input.	Enter the server, then perform operations.
1020	No userID input.	Enter the user name, then perform operations.
1030	No password setting. Set the password.	Enter the password, then perform operations.
1060	Failed to login.	Check the entered information again, then perform operations.
1070	Failed to get the login user information.	Check the entered information again, then perform operations.
1080	Failed to get the password information	End the application, and login again.
1090	Failed to login.	Check the entered information again, then perform operations.
1100	Failed to update due to illegal data. Please confirm the input information.	End the application, and login again.
1130	No Correct Password.	Check the entered information again, then perform operations.
1140	Failed to set the password information.	Check the entered information again, then perform operations.
2010	Invalid password length. Change password.	Check the entered information again, then perform operations.
2020	Invalid password. Not included the capital and small letters in the password. Change the password.	Check the entered information again, then perform operations.
2030	Invalid password. Not include the number in the password. Change the password.	Check the entered information again, then perform operations.
2040	Invalid and expired password. Change password.	Change the password following the screen displayed.

Error Messages (continued)

Submessages

The messages shown below are displayed together with the messages with code number 1000 and higher, like 1000-1.

No.	Message
0	DB access error.
1	No user found.
2	No user rights
3	Failed to add the user.
4	Failed to delete the user.
5	Failed to update the user information.
6	Wrong user id
7	Wrong password
8	Failed to add the user rights.
9	Number of users were exceeded.
10	No update time for the user
11	Failed to register the search information.
12	The same search name has already existed.
13	No search information
14	Failed to change the search information.
15	Failed to delete the search information.
16	Illegal group information.
17	Reached to the maximum capacity of the User Contents Search.
18	No UserContentsSearch
101	No video exists
102	No right to access the video
103	Failed to add the video.
104	No registered drive found
105	Failed to register the attached file
106	The video has existed.
107	Failed to add the bookmark.
108	Failed to register the file information.
109	The file information has existed.
110	Failed to register the officer.
111	Failed to register the event
112	GPIO has existed.
113	Failed to register GPIO
114	Reached to the maximum capacity of officer information.
115	Failed to delete the video.
116	Failed to modify the attached file.
117	No attached file exists.
118	Failed to modify the bookmark.
119	No bookmark exists
120	Failed to modify the video information.
121	Failed to modify the file information.
122	No file information exists.
123	Failed to modify the officer information
124	No Officer information exists.
125	Failed to modify the event information.
126	No event information exists.

Error Messages (continued)

No.	Message
127	Failed to modify the GPIO information.
128	No GPIO information exists.
129	Failed to transfer the file.
130	Failed to create the file path on the server, or no path exists.
131	The file has existed.
132	Failed to create the file on the server.
133	No file exists.
134	Failed to modify the right.
135	Failed to delete the actual data.
136	The registration number of attached file is exceeded.
137	Invalid video
138	Locked.
139	No lock by your own.
140	Failed to add the drive.
141	Failed to add the case file.
142	Failed to set to link the contents.
143	Failed to modify the drive.
144	Failed to modify the case file.
145	Failed to do multiple operation.
146	No rights to modify the evidence rule.
147	Failed to add the evidence rule.
148	Failed to search the evidence rule.
149	Illegal contents information
150	Failed to delete the evidence rule.
151	Failed to update the contents information by the evidence rule.
152	Locked the contents.
153	Failed to unlock the contents.
154	This status of the contents can not move (restore) archive
155	An error occurred when adding the information
156	An error occurred when adding the information
157	An error occurred when adding the information
158	An error occurred when deleting the information
159	An error occurred when deleting the information
160	An error occurred when deleting the preset information
161	An error occurred when changing the information
162	An error occurred when changing the information
163	An error occurred when changing the information
201	No case file exists.
202	No right to operate the case file.
203	The registration number of case file reached to the maximum.
204	Failed to add the case file.
205	Failed to modify the case file.
206	Failed to delete the case file. The case file has been assigned to the video.
207	Failed to delete the case file.
301	No group exists.
302	No right to operate the group.
303	Failed to add the group.
304	Failed to delete the group.
305	Failed to add the rights.
306	Failed to modify the group information.

Error Messages (continued)

No.	Message
307	Failed to add the group.
308	The registration number of group is exceeded.
309	Failed to update the group information.
501	No setting information exists.
502	No rights to set up
503	Failed to add the drive setting.
504	Failed to add the drive log setting.
505	The drive setting has been registered.
506	Failed to delete the drive setting.
507	Failed to valid the drive setting.
508	Failed to modify the drive setting.
509	Failed to register the server network setting.
510	Failed to register the schedule setting.
511	Failed to modify the Server network setting.
512	Failed to modify the schedule setting.
513	Number of the drive setting items is exceeded.
514	Failed to search the logical drive.
515	Failed to set up the password.
516	Failed to set up the system configs.
517	Failed to delete the drive due to the assigned drive by the evidence rule.
518	Failed to search the drive.
519	Failed to add the IP address.
520	This database is used by else BES
601	No logs exist.
602	No rights exist.
603	Failed to add the log.
604	Failed to delete the log
701	No machine setting information exist.
702	No rights exist.
703	Failed to register the machine information.
704	Failed to register the machine group information.
705	Failed to register the software.
706	Failed to register the released software.
707	Failed to register the installation.
708	Failed to modify the machine information.
709	Failed to modify the machine group.
710	Failed to modify the software.
711	Failed to modify the released software.
712	Failed to modify the installation.
713	Released software has existed.
714	No software information exists.
715	No machine setting group exists.
716	No released software exists.
717	The officer has existed.
718	The software has existed.
719	The install information has existed.
720	No update module exists
721	No update module path exists in DB.
722	Failed to locate the update module
723	The install information has existed.

Error Messages (continued)

No.	Message
724	Failed to delete the machine.
725	Failed to delete the machine group.
726	Failed to delete the machine software.
727	Failed to delete the machine release file.
728	Failed to delete the machine release software.
729	Failed to delete the installed machine.
801	No free field exists.
802	Failed to set the free field.
900	No Classify exists.
901	No right to operate Classify
902	Failed to add Classify.
903	The registration number of Classify reached to the maximum.
904	Failed to delete Classify.
905	Failed to modify Classify.
906	Failed to add Classify patterns.
907	Failed to delete Classify patterns.
908	Failed to modify Classify patterns.
909	No Classify patterns exist.
910	Failed to modify Classify due to linking to the machine.
911	Failed to modify Classify due to linking to the group.
1000	A limit is exaggerated
2601	This item already existed in DB
2627	This item already existed in DB
3000	Failed to connect.
3001	Time out
3002	Stopped the process.
3003	Failed to transfer
5000	Illegal query
5001	Exceptional error on DB Server.
5002	Illegal connection to DB
6000	No support
6001	Unknown error on Server.
6002	Illegal parameter.
6003	Invalid request
6004	No file was found.
6005	Invalid file path
6006	Illegal file
6007	Failed to get the PC information on network.
6008	No rights to get the network path.
—	Unknown Server Error

Camera Connection and Combination of Cameras

Combination of cameras depends on the cameras connected to the recorder. Available combination is as shown below.

Selectable combination of cameras depends on the detected cameras.

- If only CAM4, CAM5, and CAM6 are set to OFF, preset patterns, 4Ch-Quad, 4Ch-Panorama, 5Ch-Quad, and 5Ch- Panorama, cannot be selected.
- If all of CAM1, CAM2, and CAM 3 are set to OFF, preset patterns, 4Ch- Panorama and 5Ch- Panorama, cannot be selected.
- If two channels of CAM1, CAM2, and CAM 3 are not connected, preset patterns, 5Ch- Panorama cannot be selected.

Selectable preset patterns depends on the detected cameras.

- If CAM1 is set to OFF, any combination of cameras indicated by "1" cannot be selected.
- If CAM2 is set to OFF, any combination of cameras indicated by "2" cannot be selected.
- If CAM3 is set to OFF, any combination of cameras indicated by "3" cannot be selected.
- If any of CAM4, CAM5, or CAM6 is set to ON, a pattern indicated by "456" can be selected.

Camera connection				Combination of cameras																			
1	2	3	456	1	2	3	1,2	1,3	2,3	1456	2456	3456	1456P	2456P	3456P	1, 2456	1, 3456	2, 3456	3, 2456	1, 2456P	1, 3456P	2, 3456P	3, 2456P
0	X	X	X	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X	0	X	X	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0	0	X	X	1	2	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X	X	0	X	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0	X	0	X	1	-	2	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X	0	0	X	-	1	2	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0	0	0	X	1	○	○	2	3	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X	X	X	0	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
0	X	X	0	1	-	-	-	-	-	○	-	-	2	-	-	3	-	-	-	-	-	-	-
X	0	X	0	-	1	-	-	-	-	-	2	-	-	○	-	-	-	3	-	-	-	-	-
0	0	X	0	○	○	-	1	-	-	○	○	-	-	○	-	2	-	-	-	3	-	-	-
X	X	0	0	-	-	1	-	-	-	-	-	2	-	-	○	-	-	-	3	-	-	-	-
0	X	0	0	○	-	○	-	1	-	○	-	○	○	-	○	-	2	-	-	3	-	-	-
X	0	0	0	-	○	○	-	-	1	-	○	○	-	○	○	-	-	2	3	-	-	○	○
0	0	0	0	○	○	○	1	○	○	○	○	○	○	○	○	2	3	○	-	○	○	○	-

1Ch

2Ch

4Ch

5Ch

P: Panorama

■: Preset number of recommended combination of cameras

○: Selectable combination of cameras

0: A camera is connected.

X: A camera is not connected.

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